# Spectrem 2

Table of Contents	
Spectrem 2 Data Sheet - EN	1
Spectrem 2 Adobe Tan SDS - EN	3
Spectrem 2 Aluminum Stone SDS - EN	17
Spectrem 2 Anodized Aluminum SDS - EN	30
Spectrem 2 Black SDS - EN	43
Spectrem 2 Blue Spruce SDS - EN	57
Spectrem 2 Bronze SDS - EN	70
Spectrem 2 Buff SDS - EN	84
Spectrem 2 Champagne SDS - EN	97
Spectrem 2 Charcoal SDS - EN	110
Spectrem 2 Clear SDS - EN	123
Spectrem 2 Dark Bronze SDS - EN	136
Spectrem 2 Dusty Rose SDS - EN	150
Spectrem 2 Gray SDS - EN	164
Spectrem 2 Ivory SDS - EN	178
Spectrem 2 Limestone SDS - EN	192
Spectrem 2 Lt Bronze SDS - EN	206
Spectrem 2 Off-White SDS - EN	219
Spectrem 2 Precast White SDS - EN	232
Spectrem 2 Rustic Brick SDS - EN	245
Spectrem 2 Sandstone SDS - EN	257
Spectrem 2 White SDS - EN	270



TECHNICAL DATA SHEET SPECTREM<sup>®</sup> 2

Single-Component, Neutral-Cure Silicone Sealant for 2-Sided Structural Glazing

# **PRODUCT DESCRIPTION**

Spectrem® 2 is a high-performance, single-component, neutral-cure, medium-modulus silicone sealant.

# **BASIC USES**

Spectrem 2 is ideal for a variety of perimeter caulking and glazing applications, including 2-sided structural glazing. Spectrem 2 may be used on substrates such as aluminum, glass, steel, painted metal, plastic, stone, concrete, and brick.

# FEATURES & BENEFITS

The medium modulus of Spectrem 2 allows it to be used as a structural tensile bead and weather sealant. Spectrem 2 offers excellent adhesion to a variety of substrates including glass and metal, making it the perfect single product to be used for a variety of applications on the same job from 2-sided structural glazing to perimeter caulking and joint filling. Spectrem 2 has been tested for compatibility and approved for use with Tremco's Silicone Compatible Rubber Extrusions and Tremco's SGT-900 and SGT-2000 series of tapes.

There is no mixing required with Spectrem 2, so the product is always ready to use for immediate application with conventional caulking equipment. Spectrem 2 provides resistance to driving rain, ozone, ultra-violet light and temperature extremes, plus it safeguards against water penetration with exceptional weatherability in all climate zones.

Spectrem 2 is offered in a wide variety of colors, with custom colors and color matching also available for special projects.

Spectrem 2 meets or exceeds the following specifications:

- ASTM C920 Type S, Grade NS, Class 50, Use NT, M, G, A, and O
- ASTM C1248
- ASTM C1184
- U.S. Federal Specification TT-S-001543A (COM-NBS) Class A
- U.S. Federal Specification TT-S-00230C (COM-NBS) Class A, Type II
- CAN/CGSB 19.13-M87
- Black meets all of AAMA 802.3-92 (Type I and II), 805.2-94 (Group C), and 808.3-92
- Conforms to ASTM C1184 Use G and O (Aluminum)

The Greenguard Gold certification on Spectrem 2 ensures safety for use in the most sensitive indoor environments including hospitals and schools.

# AVAILABILITY

Immediately available from your local Tremco Sales Representative, Tremco Distributor, or Tremco Warehouse in 10.1 oz (300 mL) cartridges, 20 oz (600 mL) sausages, and 55 gal (208 L) drums.

# COLORS

Available in Adobe Tan, Aluminum Stone, Anodized Aluminum, Black, Blue Spruce, Bronze, Charcoal, Dark Bronze, Gray, Limestone, Off White, and White.

All colors are <u>not</u> available in all package sizes. Some colors may require a minimum quantity. Contact Tremco Customer Service for more information.



# LIMITATIONS

Do not apply to damp or contaminated surfaces. Not intended for continuous water immersion. Use with adequate ventilaiton. Only Black Spectrem 2 is recommended for structural glazing applications.

# WARRANTY

A repair or replacement warranty is available on all Tremco products. Visit https://www.tremcosealants.com/warranties/ for details.

TYPICAL PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	TYPICAL RESULTS
As Supplied:		
Flow, Sag or Slump Inches	ASTM C639	Nil
Sag	ASTM D2202	0 to 0.03 in (0 to 0.1 mm)
Tack Free Time	ASTM C679	20 to 40 min
Tooling Time	Skin Formation	10 to 15 min
As Cured, After 14 Days at 77°F (25°C), !	50%RH	
Cyclic Movement	ASTM C719	±50%
Elongation	ASTM D412	235 to 260%
Hardness (Shore A)	ASTM C661	37 to 40
Peel Strength Aluminum & Glass	ASTM C794	16 to 22 pli (28.1 to 3.86 kN/m)
Staining of Porous Substrates,	ASTM C1248	No Stain
White Marble Primed & Unprimed		
Tear Strength, Die ("C")	ASTM D624	35 to 40 pli (6.14 to 7.02 kN/m)
Tensile Strength at 100% Elongation	ASTM C1135	90 to 100 psi (0.62 to 0.69 MPa)
Tensile Strength at Max Elongation	ASTM D412	220 to 230 psi (1.52 to 1.59 MPa)
As Cured, After 21 Days at 77°F (25°C), !	50%RH	
Ultimate Elongation	ASTM C1135	261%
Ultimate Tensile Strength	ASTM C1135	123 psi (0.85 MPa)

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.



SPEC2DS/1222

Tremco Construction Products Group (CPG) brings together Tremco CPG Inc. and its Dryvit and Nudura brands; Willseal; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc. and its Pure Air Control Services and Canam Building Envelope Specialists offerings; and Weatherproofing Technologies Canada, Inc



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REMO

Construction Products Group



# **SAFETY DATA SHEET**

# 1. Identification

Material name: SPECTREM 2 ADOBE TAN - 30 CTG Material: 947861 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

### Contact person: Telephone: Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

#### **Hazard Classification**

Health Hazards	
Carcinogenicity	Category 1A
Toxic to reproduction	Category 2

#### **Unknown toxicity - Health**

Unknown toxicity - Environment	
Acute toxicity, dermal Acute toxicity, inhalation, vapor Acute toxicity, inhalation, dust or mist	51 % 99.9 % 98.83 %
Acute toxicity, oral	49.55 %

Acute hazards to the aquatic	92.07 %
environment	
Chronic hazards to the aquatic	100 %
environment	

#### Label Elements

Hazard Symbol:



Danger

Signal Word:

Hazard Statement:

May cause cancer. Suspected of damaging fertility or the unborn child.



Precautionary Statement: Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

# 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Stearic acid	57-11-4	0.5 - 1.5%
Iron oxide	1309-37-1	0.1 - 1%
Titanium dioxide	13463-67-7	0.1 - 1%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.		
Inhalation:	Move to fresh air.		
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.		
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.		
Most important symptoms/effects, acute and delayed			

Symptoms: May cause skin and eye irritation.

## Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed.



5. Fire-fighting measures				
General Fire Hazards:	No unusual fire or explosion hazards noted.			
Suitable (and unsuitable) extinguishing media				
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.			
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.			
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.			
Special protective equipment an	d precautions for firefighters			
Special fire fighting procedures:	No data available.			
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.			
6. Accidental release measures	s			
Personal precautions, protective equipment and emergency procedures:	No data available.			
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.			
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.			
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.			
7. Handling and storage				
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.			
Conditions for safe storage, including any incompatibilities:	Store locked up.			



# 8. Exposure controls/personal protection

# **Control Parameters**

# **Occupational Exposure Limits**

Chemical Identity	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Amorphous silica	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Iron oxide - Respirable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (2011)
Iron oxide - Fume.	PEL	10 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Crystalline Silica (Quartz)/ Silica Sand - Total dust.	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

Chemical name	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational



			Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand -	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the



	Respirable dust.		Quality of the Work Environment) (12 2008)
Appropriate Engineering Controls		Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.	
Individual protection measures, such as personal protective equipment			
	General information:	Use personal protective equipment as required.	
	Eye/face protection:	Wear goggles/face shield.	
	Skin Protection Hand Protection:	Use suitable protectiv	e gloves if risk of skin contact.
	Other:	No data available.	
	Respiratory Protection:	In case of inadequate local supervisor.	ventilation use suitable respirator. Seek advice from
	Hygiene measures:	immediately after hand	al hygiene practices. Wash hands before breaks and lling the product. Do not handle until all safety read and understood. Obtain special instructions

# 9. Physical and chemical properties

#### Appearance

Appearance	
Physical state:	solid
Form:	Paste
Color:	Tan
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosive	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.34
Solubility(ies)	



Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# 11. Toxicological information

## Information on likely routes of exposure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

# Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 41,523.94 mg/kg
Dermal Product:	ATEmix: 12,483.7 mg/kg
Inhalation Product:	No data available.

Repeated dose toxicity	
Product:	No data available.



Skin Corrosion/Irritation Product:	No data available.	
<b>Specified substance(s):</b> Amorphous silica	in vivo (Rabbit): Experimental result, Key study	
Stearic acid	in vivo (Rabbit): Experimental result, Key study	
Iron oxide	in vivo (Rabbit): Experimental result, Weight of Evidence study	
Titanium dioxide	in vivo (Rabbit): Experimental result, Supporting study	
Octamethylcyclotetrasil oxane	in vivo (Rabbit): Experimental result, Key study	
Serious Eye Damage/Eye Irritatio Product:	on No data available.	
<b>Specified substance(s):</b> Amorphous silica	in vivo (Rabbit, 24 hrs): Not irritating	
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating	
Iron oxide	in vivo (Rabbit, 1 - 72 hrs): Not irritating	
Titanium dioxide	in vivo (Rabbit, 24 hrs): Not irritating	
Respiratory or Skin Sensitization		

#### Respiratory or Skin Sensitization Product: No data available.

Carcinogenicity Product:

No data available.



# IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: Titanium dioxide Overall evaluation: Possibly carcinogenic to humans. **Crystalline Silica** Overall evaluation: Carcinogenic to humans. (Quartz)/ Silica Sand US. National Toxicology Program (NTP) Report on Carcinogens: Silica Known To Be Human Carcinogen. Crystalline (Quartz)/ Silica Sand US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified **Germ Cell Mutagenicity** In vitro **Product:** No data available. In vivo Product: No data available. **Reproductive toxicity Product:** Suspected of damaging fertility or the unborn child. Specific Target Organ Toxicity - Single Exposure **Product:** No data available. Specific Target Organ Toxicity - Repeated Exposure **Product:** No data available. **Aspiration Hazard Product:** No data available. Other effects: No data available.

# 12. Ecological information

# Ecotoxicity:

# Acute hazards to the aquatic environment:

Fish Product:

No data available.

# Specified substance(s):

Octamethylcyclotetrasilox LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 14 d): 0.0085



ane	- 0.013 mg/l Mortality	
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquati	c environment:	
Fish Product:	No data available.	
Specified substance(s): Iron oxide	NOAEL (Pimephales promelas, 33 d): 1.6 mg/l Experimental result, Supporting study	
Titanium dioxide	LC 50 (Oncorhynchus mykiss, 28 d): 7.31 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study	
Octamethylcyclotetrasilox ane	NOAEL (Oncorhynchus mykiss, 93 d): >= 4.4 µg/l Experimental result, Key study LC 50 (Oncorhynchus mykiss, 96 h): > 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): < 23 µg/l Experimental result, Supporting study LC 80 (Oncorhynchus mykiss, 18 d): 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): >= 31 µg/l Experimental result, Supporting study	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative Potential Bioconcentration Factor (BCF) Product: No data available.		
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): 3,800 - 4,200 (Flow through)	
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.	



Specified substance(s):	
Stearic acid	Log Kow: 8.23
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDC:	

## TDG:

Not Regulated

## CFR / DOT:

Not Regulated

#### IMDG:

Not Regulated

# 15. Regulatory information

#### **US Federal Regulations**

- TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.
- US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

# CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Ethyl alcohol	100 lbs.
Acetic acid	5000 lbs.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

# Hazard categories

Delayed (Chronic) Health Hazard



## SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Ethyl alcohol	100 lbs.
Acetic acid	5000 lbs.

## SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	500 lbs
(Limestone)	
Amorphous silica	500 lbs
Stearic acid	500 lbs
Iron oxide	500 lbs
Titanium dioxide	500 lbs
Octamethylcyclotetrasiloxa	500 lbs
ne	
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

#### US. New Jersey Worker and Community Right-to-Know Act

#### Chemical Identity

Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand

# **US. Massachusetts RTK - Substance List**

### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand

# US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica



# US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Other Regulations:	
Regulatory VOC (less water and exempt solvent):	34 g/l
VOC Method 310:	2.55 %
Inventory Status: Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision



Revision Date:	05/25/2016
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



# **SAFETY DATA SHEET**

## 1. Identification

## Material name: SPECTREM 2 ALUMINUM STONE Material: 947851 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

Contact person:
Telephone:
Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

#### **Hazard Classification**

Health Hazards	
Carcinogenicity	Category 2
Toxic to reproduction	Category 2

#### **Unknown toxicity - Health**

Acute toxicity, oral	56.64 %
Acute toxicity, dermal	57.55 %
Acute toxicity, inhalation, vapor	99.92 %
Acute toxicity, inhalation, dust or mist	99.8 %
own toxicity - Environment	

Unknown toxicity - Environment	
Acute hazards to the aquatic	92.78 %
environment	
Chronic hazards to the aquatic	100 %
environment	

#### **Label Elements**

Hazard Symbol:



Signal Word:

Warning

Hazard Statement:

Suspected of causing cancer. Suspected of damaging fertility or the unborn child.



Precautionary Statement:	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

# 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Calcium carbonate	471-34-1	30 - 60%
Calcium Carbonate (Limestone)	1317-65-3	10 - 30%
Stearic acid	57-11-4	1 - 5%
Titanium dioxide	13463-67-7	0.5 - 1.5%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.		
Inhalation:	Move to fresh air.		
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.		
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.		
Most important symptoms/effects, acute and delayed			
Symptoms:	May cause skin and eye irritation.		
Indication of immediate medical attention and special treatment needed			
Treatment:	Symptoms may be delayed.		
5. Fire-fighting measures			



General Fire Hazards:	No unusual fire or explosion hazards noted.	
Suitable (and unsuitable) e	xtinguishing media	
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.	
Special protective equipment an	d precautions for firefighters	
Special fire fighting procedures:	No data available.	
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
6. Accidental release measure	S	
Personal precautions, protective equipment and emergency procedures:	No data available.	
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.	
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.	
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.	
7. Handling and storage		
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.	
Conditions for safe storage, including any incompatibilities:	Store locked up.	

# 8. Exposure controls/personal protection



# **Control Parameters**

# **Occupational Exposure Limits**

Chemical Identity	type	Exposure Limit Values	Source
Calcium carbonate -	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
Total dust.			Contaminants (29 CFR 1910.1000) (02 2006)
Calcium carbonate -	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
Respirable fraction.			Contaminants (29 CFR 1910.1000)
			(02 2006)
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total			Contaminants (29 CFR 1910.1000)
dust.			(02 2006)
Calcium Carbonate	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) -			Contaminants (29 CFR 1910.1000)
Respirable fraction.			(02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
			(2011)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
			(2011)
Titanium dioxide - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			Contaminants (29 CFR 1910.1000)
			(02 2006)

Chemical name	type	Exposure Limit Values	Source
Calcium carbonate - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Stearic acid	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stearic acid	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

#### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.



Hygiene measures:

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

# 9. Physical and chemical properties

Appearance		
Physical state:	solid	
Form:	Paste	
Color:	Gray	
Odor:	Mild sharp	
Odor threshold:	No data available.	
pH:	No data available.	
Melting point/freezing point:	No data available.	
Initial boiling point and boiling range:	No data available.	
Flash Point:	No data available.	
Evaporation rate:	Slower than Ether	
Flammability (solid, gas):	No	
Upper/lower limit on flammability or explosive limits		
Flammability limit - upper (%):	No data available.	
Flammability limit - lower (%):	No data available.	
Explosive limit - upper (%):	No data available.	
Explosive limit - lower (%):	No data available.	
Vapor pressure:	No data available.	
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.	
Relative density:	1.41	
Solubility(ies)		
Solubility in water:	Practically Insoluble	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/water):	No data available.	
Auto-ignition temperature:	No data available.	
Decomposition temperature:	No data available.	
Viscosity:	No data available.	

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.



Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
11. Toxicological information	
Information on likely restan of av	

# Information on likely routes of exposure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

# Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 37,524.83 mg/kg
Dermal Product:	ATEmix: 18,463.98 mg/kg
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Specified substance(s): Calcium carbonate	in vivo (Rabbit): Experimental result, Key study
Stearic acid	in vivo (Rabbit): Experimental result, Key study
Titanium dioxide	in vivo (Rabbit): Experimental result, Supporting study
Octamethylcyclotetrasil oxane	in vivo (Rabbit): Experimental result, Key study



Serious Eye Damage/Eye Irritati Product:	i <b>on</b> No data available.	
Specified substance(s): Calcium carbonate	in vivo (Rabbit, 24 - 72 hrs): Not irritating	
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating	
Titanium dioxide	in vivo (Rabbit, 24 hrs): Not irritating	
Respiratory or Skin Sensitizatio Product:	n No data available.	
Carcinogenicity Product:	Suspected of causing cancer.	
IARC Monographs on the Evalu	ation of Carcinogenic Risks to Humans:	
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.	
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
Reproductive toxicity Product:	Suspected of damaging fertility or the unborn child.	
Specific Target Organ Toxicity - Single Exposure Product: No data available.		
Specific Target Organ Toxicity - Product:	- Repeated Exposure No data available.	
Aspiration Hazard Product:	No data available.	
Other effects:	No data available.	



# 12. Ecological information

# Ecotoxicity:

Acute hazards to the aquatic environment:		
Fish Product:	No data available.	
Specified substance(s): Octamethylcyclotetrasilox ane	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 14 d): 0.0085 - 0.013 mg/l Mortality	
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquation	environment:	
Fish Product:	No data available.	
<b>Specified substance(s):</b> Titanium dioxide	LC 50 (Oncorhynchus mykiss, 28 d): 7.31 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study	
Octamethylcyclotetrasilox ane	NOAEL (Oncorhynchus mykiss, 93 d): >= 4.4 µg/l Experimental result, Key study LC 50 (Oncorhynchus mykiss, 96 h): > 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): < 23 µg/l Experimental result, Supporting study LC 80 (Oncorhynchus mykiss, 18 d): 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): >= 31 µg/l Experimental result, Supporting study	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	

**Bioaccumulative Potential** 



Bioconcentration Factor (BC Product:	<b>F)</b> No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): 3,800 - 4,200 (Flow through)
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.
Specified substance(s): Stearic acid	Log Kow: 8.23
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDG:	
Not Regulated	
CFR / DOT:	
Not Regulated	

#### IMDG:

Not Regulated

# 15. Regulatory information

# **US Federal Regulations**

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.



# CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u> Cyclohexane Toluene Methanol

# Reportable quantity

1000 lbs. 1000 lbs. 5000 lbs.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Delayed (Chronic) Health Hazard

## SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Toluene	1000 lbs.
Methanol	5000 lbs.

## SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium carbonate	500 lbs
Calcium Carbonate	500 lbs
(Limestone)	
Stearic acid	500 lbs
Titanium dioxide	500 lbs
Octamethylcyclotetrasiloxa	500 lbs
ne	

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

## US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Calcium carbonate Calcium Carbonate (Limestone)



## US. Massachusetts RTK - Substance List

<u>Chemical Identity</u> Calcium carbonate Calcium Carbonate (Limestone) Crystalline Silica (Quartz)/ Silica Sand

# US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Calcium carbonate Calcium Carbonate (Limestone)

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

## **Other Regulations:**

Regulatory VOC (less water	30 g/l
and exempt solvent):	
VOC Method 310:	2.11 %

## **Inventory Status:**

Australia AICS:

EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory:

Philippines PICCS:

New Zealand Inventory of Chemicals:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

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One or more components in this product are not listed on or exempt from the Inventory.



Canada DSL Inventory List:

All components in this product are listed on or exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	08/15/2016
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



# SAFETY DATA SHEET

# 1. Identification

Material name: SPECTREM 2 ANODIZED ALUMINUM Material: 947878 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

Contact person:
Telephone:
Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

#### **Hazard Classification**

Health	n Haza	ards

Carcinogenicity	Category 1A	
Unknown toxicity - Health		
Acute toxicity, oral	50.43 %	
Acute toxicity, dermal	51.61 %	
Acute toxicity, inhalation, vapor	99.47 %	
Acute toxicity, inhalation, dust or mist	99.99 %	
Unknown toxicity - Environment		
Acute hazards to the aquatic environment	90.82 %	
Chronic hazards to the aquatic environment	100 %	

#### Label Elements

Hazard Symbol:



Signal Word:

Danger

**Hazard Statement:** 

May cause cancer.

Precautionary Statement:



Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Titanium dioxide	13463-67-7	1 - 5%
Stearic acid	57-11-4	0.5 - 1.5%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.		
Inhalation:	Move to fresh air.		
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.		
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.		
Most important symptoms/effects, acute and delayed			
Symptoms:	May cause skin and eye irritation.		
Indication of immediate medical attention and special treatment needed			
Treatment:	Symptoms may be delayed.		
5. Fire-fighting measures			
General Fire Hazards:	No unusual fire or explosion hazards noted.		



# Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.	
Special protective equipment and	d precautions for firefighters	
Special fire fighting procedures:	No data available.	
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
6. Accidental release measures	5	
Personal precautions, protective equipment and emergency procedures:	No data available.	
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.	
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.	
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.	
7. Handling and storage		
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.	
Conditions for safe storage, including any incompatibilities:	Store locked up.	

# 8. Exposure controls/personal protection

# Control Parameters Occupational Exposure Limits



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Chemical Identity	type	Exposure Limit Values	Source
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total			Contaminants (29 CFR 1910.1000)
dust. Calcium Carbonate	PEL	5 mg/m3	(02 2006) US. OSHA Table Z-1 Limits for Air
(Limestone) -	FEL	5 119/113	Contaminants (29 CFR 1910.1000)
Respirable fraction.			(02 2006)
Amorphous silica	TWA	20 millions	US. OSHA Table Z-3 (29 CFR
		of particles	1910.1000) (2000)
		per cubic	
		foot of air	
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR
Titanium dioxide	TWA	10 m a/m 2	1910.1000) (2000) US. ACGIH Threshold Limit Values
ritanium dioxide	IVVA	10 mg/m3	(2011)
Titanium dioxide - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			Contaminants (29 CFR 1910.1000)
			(02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
		0.005	(2011)
Crystalline Silica	TWA	0.025	US. ACGIH Threshold Limit Values
(Quartz)/ Silica Sand - Respirable fraction.		mg/m3	(2011)
Crystalline Silica	TWA	2.4	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -		millions of	1910.1000) (2000)
Respirable.		particles	
-		per cubic	
		foot of air	
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR
			1910.1000) (2000)
Crystalline Silica	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand - Total dust.			1910.1000) (2000)
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Chemical name	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)



Appropriate Engineering Controls	Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.	
Individual protection measures, s	such as personal protective equipment	
General information:	Use personal protective equipment as required.	
Eye/face protection:	Wear goggles/face shield.	
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.	
Other:	No data available.	
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.	
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.	

# 9. Physical and chemical properties

# Appearance

••		
Physical state:	solid	
Form:	Paste	
Color:	Gray	
Odor:	Mild sharp	
Odor threshold:	No data available.	
pH:	No data available.	
Melting point/freezing point:	No data available.	
Initial boiling point and boiling range:	No data available.	
Flash Point:	No data available.	
Evaporation rate:	Slower than Ether	
Flammability (solid, gas):	No	
Upper/lower limit on flammability or explosive limits		
Flammability limit - upper (%):	No data available.	
Flammability limit - lower (%):	No data available.	
Explosive limit - upper (%):	No data available.	
Explosive limit - lower (%):	No data available.	
Vapor pressure:	No data available.	
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.	
Relative density:	1.34	
Solubility(ies)		
Solubility in water:	Practically Insoluble	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/water):	No data available.	
Auto-ignition temperature:	No data available.	
Decomposition temperature:	No data available.	



Viscosity:	No data available.
10. Stability and reactivity	
Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
11. Toxicological informatio	n

#### Information on likely routes of exposure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

# Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 60,509.53 mg/kg
Dermal Product:	ATEmix: 44,582.76 mg/kg
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.

# Serious Eye Damage/Eye Irritation



Product:	No data available.		
Specified substance(s): Amorphous silica	in vivo (Rabbit, 24 hrs): Not irritating		
Titanium dioxide	in vivo (Rabbit, 24 - 72 hrs): Not irritating		
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating		
Respiratory or Skin Sensitization Product:	n No data available.		
Carcinogenicity Product:	No data available.		
IARC Monographs on the Evalua	ation of Carcinogenic Risks to Humans:		
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.		
Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.		
US. National Toxicology Program (NTP) Report on Carcinogens: Crystalline Silica Known To Be Human Carcinogen. (Quartz)/ Silica Sand			
No carcinogenic com	d Substances (29 CFR 1910.1001-1050): ponents identified		
Germ Cell Mutagenicity			
In vitro Product:	No data available.		
In vivo Product:	No data available.		
Reproductive toxicity Product:	No data available.		
Specific Target Organ Toxicity - Single Exposure           Product:         No data available.			
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.		
Aspiration Hazard Product:	No data available.		



Other effects:

No data available.

# 12. Ecological information

# Ecotoxicity:

# Acute hazards to the aquatic environment:

Fish Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality
Aquatic Invertebrates Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication
Chronic hazards to the aquatic	environment:
Fish Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l experimental result
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative Potential Bioconcentration Factor (BC Product:	<b>F)</b> No data available.
Partition Coefficient n-octand Product:	ol / water (log Kow) No data available.



Specified substance(s): Stearic acid	Log Kow: 8.23
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDG:	
Not Regulated	
CFR / DOT:	
Not Regulated	
IMDG:	

Not Regulated

# 15. Regulatory information

#### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity	
Methanol	5000 lbs.	

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories Delayed (Chronic) Health Hazard

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



# SARA 304 Emergency Release Notification

Chemical IdentityReportable quantityMethanol5000 lbs.Copper phthalocyanine

# SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	500 lbs
(Limestone)	
Amorphous silica	500 lbs
Titanium dioxide	500 lbs
Stearic acid	500 lbs
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	

# SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

# Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

## **US State Regulations**

# **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

# US. New Jersey Worker and Community Right-to-Know Act

#### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica Titanium dioxide

#### **US. Massachusetts RTK - Substance List**

#### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica Titanium dioxide Crystalline Silica (Quartz)/ Silica Sand

# US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica Titanium dioxide

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**Other Regulations:** 

Regulatory VOC (less water	25 g/l
and exempt solvent):	
VOC Method 310:	1.88 %



Inventory Status: Australia AICS:	All components in this product are listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	All components in this product are listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	All components in this product are listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	08/14/2015	
Version #:	1.0	
Further Information:	No data available.	



**Disclaimer:** 

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



Version: 1.1 Revision Date: 11/30/2018

# SAFETY DATA SHEET

# 1. Identification

#### Material name: SPECTREM 2 BLACK Material: 947802 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

# Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

#### Contact person: Telephone: Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

# Hazard Classification

#### Health Hazards

Carcinogenicity	Category 2
Toxic to reproduction	Category 2

#### **Unknown toxicity - Health**

Acute toxicity, oral	22.86 %
Acute toxicity, dermal	23.58 %
Acute toxicity, inhalation, vapor	99.97 %
Acute toxicity, inhalation, dust	99.71 %
or mist	

#### **Label Elements**

Hazard Symbol:



**Signal Word:** 

Warning

Hazard Statement:

Suspected of causing cancer. Suspected of damaging fertility or the unborn child.



Precautionary Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

# 3. Composition/information on ingredients

# Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Calcium carbonate	471-34-1	30 - 60%
Calcium Carbonate (Limestone)	1317-65-3	10 - 30%
Stearic acid	57-11-4	1 - 5%
Carbon Black	1333-86-4	0.5 - 1.5%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause skin and eye irritation.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Symptoms may be delayed.	



5. Fire-fighting measures	
General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extingu	lishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measure	s
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.
Conditions for safe storage, including any incompatibilities:	Store locked up.



# 8. Exposure controls/personal protection

# **Control Parameters**

#### **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
Calcium carbonate - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			Contaminants (29 CFR 1910.1000) (02 2006)
Calcium carbonate -	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
Respirable fraction.		_	Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total dust.		_	Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Respirable		_	Contaminants (29 CFR 1910.1000) (02 2006)
fraction.			
Stearic acid - Respirable	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
fraction.		_	
Stearic acid - Inhalable	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
fraction.		_	
Carbon Black - Inhalable	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (2011)
fraction.			
Carbon Black	PEL	3.5 mg/m3	US. OSHA Table Z-1 Limits for Air
		-	Contaminants (29 CFR 1910.1000) (02 2006)

Chemical name	Туре	Exposure Limit Values	Source
Calcium carbonate - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Stearic acid	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stearic acid	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Carbon Black - Inhalable	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Carbon Black - Inhalable fraction.	TWA	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Carbon Black	TWA	3.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

#### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

#### Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

# 9. Physical and chemical properties

#### Appearance

Physical state:	solid
Form:	Paste
Color:	Black



Mild sharp
No data available.
Slower than Ether
No
<i>v</i> e limits
No data available.
Vapors are heavier than air and may travel along the floor and in the bottom of containers.
1.40
Practically Insoluble
No data available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

#### Information on likely routes of exposure Inhalation: In high

In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.



Skin Contact:	May be harmful in contact with skin. Causes mild skin irritation.			
Eye contact:	Eye contact is possible and should be avoided.			
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.			
Symptoms related to the physica	I, chemical and toxicological characteristics			
Inhalation:	No data available.			
Skin Contact:	No data available.			
Eye contact:	No data available.			
Ingestion:	No data available.			
Information on toxicological effect	cts			
Acute toxicity (list all possible	routes of exposure)			
Oral Product:	ATEmix: 71,632.24 mg/kg			
Dermal Product:	ATEmix: 3,945.17 mg/kg			
Inhalation Product:	Not classified for acute toxicity based on available data.			
Specified substance(s): Octamethylcyclotetrasilox ane	LC 50 (Rat): 36 mg/l			
Repeated dose toxicity Product:	No data available.			
Skin Corrosion/Irritation Product:	No data available.			
Specified substance(s): Calcium carbonate	in vivo (Rabbit): Not irritant Experimental result, Key study			
Stearic acid	in vivo (Rabbit): Not irritant Experimental result, Key study			
Carbon Black	in vivo (Rabbit): Not irritant Experimental result, Key study			
Octamethylcyclotetrasil oxane	in vivo (Rabbit): Not irritant Experimental result, Key study			



Serious Eye Damage/Eye Irritat Product: Specified substance(s):	t <b>ion</b> No data available.
Calcium carbonate	Rabbit, 24 - 72 hrs: Not irritating
Stearic acid	Rabbit, 27 - 72 hrs: Not irritating
Carbon Black	Rabbit, 24 - 72 hrs: Not irritating
Respiratory or Skin Sensitizatio Product:	on No data available.
Carcinogenicity Product:	Suspected of causing cancer.
IARC Monographs on the Evalu	uation of Carcinogenic Risks to Humans:
Carbon Black	Overall evaluation: Possibly carcinogenic to humans.
No carcinogenic componen	ed Substances (29 CFR 1910.1001-1050):
No carcinogenic componen	nts identified
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity Product:	- Single Exposure No data available.
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.
800000051876	



# 12. Ecological information

Ecotoxicity:			
Acute hazards to the aquatic environment:			
Fish Product:	No data available.		
Aquatic Invertebrates Product:	No data available.		
Chronic hazards to the aquatic environment:			
Fish Product:	No data available.		
Aquatic Invertebrates Product:	No data available.		
Toxicity to Aquatic Plants Product:	No data available.		
Persistence and Degradability			
Biodegradation Product:	No data available.		
BOD/COD Ratio Product:	No data available.		
Bioaccumulative potential Bioconcentration Factor (B0 Product:	CF) No data available.		
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): 14,261 (Flow through)		
Partition Coefficient n-octanol / v Product:	<b>vater (log Kow)</b> No data available.		
Specified substance(s): Stearic acid	Log Kow: 8.23		



Mobility in soil:         No data available.		
Other adverse effects:	No data available.	
13. Disposal considerations		
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.	
Contaminated Packaging:	No data available.	
14. Transport information		

#### TDG:

Not Regulated

#### CFR / DOT:

Not Regulated

#### IMDG:

Not Regulated

# 15. Regulatory information

# **US Federal Regulations**

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

# CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Methanol	5000 lbs.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Delayed (Chronic) Health Hazard

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



# SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity	
Cyclohexane	1000 lbs.	
Methanol	5000 lbs.	

## SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium carbonate	10000 lbs
Calcium Carbonate	10000 lbs
(Limestone)	
Stearic acid	10000 lbs
Carbon Black	10000 lbs
Octamethylcyclotetrasiloxane	10000 lbs

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

#### **US State Regulations**

# **US. California Proposition 65**

# WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

# US. New Jersey Worker and Community Right-to-Know Act

# Chemical Identity

Calcium carbonate Calcium Carbonate (Limestone) Carbon Black

# **US. Massachusetts RTK - Substance List**

# **Chemical Identity**

Calcium carbonate Calcium Carbonate (Limestone) Crystalline Silica (Quartz)/ Silica Sand

# US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Calcium carbonate Calcium Carbonate (Limestone)

# US. Rhode Island RTK

<u>Chemical Identity</u> Calcium carbonate Calcium Carbonate (Limestone)

#### International regulations



# **Montreal protocol**

Not applicable

# Stockholm convention

Not applicable

# Rotterdam convention Not applicable

Kyoto protocol Not applicable

# VOC:

Regulatory VOC (less water and exempt solvent)	:	29 g/l
VOC Method 310	:	2.09 %



Inventory Status: Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	11/30/2018
Version #:	1.1
Further Information:	No data available.



**Disclaimer:** 

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



# SAFETY DATA SHEET

# 1. Identification

Material name: SPECTREM 2 BLUE SPRUCE - 30 CTG Material: 947898 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

Contact person:
Telephone:
Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

#### **Hazard Classification**

Hea	lth	Hazards	

Carcinogenicity	Category 1A
nknown toxicity - Health	
Acute toxicity, oral	50.22 %
Acute toxicity, dermal	51.61 %
Acute toxicity, inhalation, vapor	99.47 %
Acute toxicity, inhalation, dust or mist	99.99 %
nknown toxicity - Environment	
Acute hazards to the aquatic environment	91.48 %
Chronic hazards to the aquatic environment	100 %

#### Label Elements

U

U

Hazard Symbol:



Signal Word:

Danger

**Hazard Statement:** 

May cause cancer.

Precautionary Statement:



Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Titanium dioxide	13463-67-7	0.5 - 1.5%
Stearic acid	57-11-4	0.5 - 1.5%
Copper phthalocyanine	147-14-8	0.1 - 1%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause skin and eye irritation.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Symptoms may be delayed.	
5. Fire-fighting measures		
General Fire Hazards:	No unusual fire or explosion hazards noted.	



# Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment and	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measures	S
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.
Conditions for safe storage, including any incompatibilities:	Store locked up.

# 8. Exposure controls/personal protection

# Control Parameters Occupational Exposure Limits



Chemical Identity	type	Exposure Limit Values	Source
-		•	
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total dust.			Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) -	1 66	5 119/113	Contaminants (29 CFR 1910.1000)
Respirable fraction.			(02 2006)
Amorphous silica	TWA	20 millions	US. OSHA Table Z-3 (29 CFR
		of particles	1910.1000) (2000)
		per cubic	
		foot of air	
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR
Titopium diovido	T\A/A	10	1910.1000) (2000) US. ACGIH Threshold Limit Values
Titanium dioxide	TWA	10 mg/m3	(2011)
Titanium dioxide - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			Contaminants (29 CFR 1910.1000)
			(02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Copper phthalocyanine	TWA	0.2 mg/m3	US. ACGIH Threshold Limit Values
- Fume as Cu			(03 2014)
Copper phthalocyanine	TWA	1 mg/m3	US. ACGIH Threshold Limit Values
- Dust and mist as Cu	TWA	0.005	(03 2014)
Crystalline Silica	IVVA	0.025	US. ACGIH Threshold Limit Values
(Quartz)/ Silica Sand - Respirable fraction.		mg/m3	(2011)
Crystalline Silica	TWA	2.4	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -		millions of	1910.1000) (2000)
Respirable.		particles	
		per cubic	
		foot of air	
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR
			1910.1000) (2000)
Crystalline Silica	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -			1910.1000) (2000)
Total dust.			

Chemical name	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)



Appropriate Engineering Controls	Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.
Individual protection measures, s	such as personal protective equipment
General information:	Use personal protective equipment as required.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.

# 9. Physical and chemical properties

# Appearance

••	
Physical state:	solid
Form:	Paste
Color:	Green
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.34
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.



Viscosity:	No data available.
10. Stability and reactivity	
Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
11. Toxicological informatio	n
Information on likely routes of	
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and

Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

# Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral Product:	1,780.00 mg/kg ATEmix : 60,770.19 mg/kg	
Dermal Product:	ATEmix: 44,577.36 mg/kg	
Inhalation Product:	No data available.	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	



Serious Eye Damage/Eye Irritation Product: No data available.			
Specified substance(s): Amorphous silica	in vivo (Rabbit, 24 hrs): Not irritating		
Titanium dioxide	in vivo (Rabbit, 24 - 72 hrs): Not irritating		
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating		
Copper phthalocyanine	in vivo (Rabbit, 24 - 72 hrs): Not irritating		
Respiratory or Skin Sensitizatio Product:	n No data available.		
Carcinogenicity Product:	No data available.		
IARC Monographs on the Evaluation	ation of Carcinogenic Risks to Humans:		
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.		
Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.		
Crystalline Silica (Quartz)/ Silica Sand	m (NTP) Report on Carcinogens: Known To Be Human Carcinogen.		
	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified		
Germ Cell Mutagenicity			
In vitro Product:	No data available.		
In vivo Product:	No data available.		
Reproductive toxicity Product:	No data available.		
Specific Target Organ Toxicity - Single ExposureProduct:No data available.			
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.		
Aspiration Hazard			



Product:	No data available.	
Other effects:	No data available.	
12. Ecological information		
Ecotoxicity:		
Acute hazards to the aquatic	environment:	
Fish Product:	No data available.	
<b>Specified substance(s):</b> Titanium dioxide	LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality	
Aquatic Invertebrates Product:	No data available.	
<b>Specified substance(s):</b> Titanium dioxide	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication	
Chronic hazards to the aquatic environment:		
Fish Product:	No data available.	
<b>Specified substance(s):</b> Titanium dioxide	LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l experimental result	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative Potential Bioconcentration Factor (Be Product:	<b>CF)</b> No data available.	



Partition Coefficient n-octanol / water (log Kow) Product: No data available.			
Specified substance(s): Stearic acid	Log Kow: 8.23		
Mobility in Soil:	No data available.		
Other Adverse Effects:	No data available.		
13. Disposal considerations			
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.		
Contaminated Packaging:	No data available.		
14. Transport information			

#### TDG:

Not Regulated

## CFR / DOT:

Not Regulated

#### IMDG:

Not Regulated

## **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity	
Methanol	5000 lbs.	

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Delayed (Chronic) Health Hazard



#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

# SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	Reportable quantity
Copper phthalocyanine	
Methanol	5000 lbs.

# SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	500 lbs
(Limestone)	
Amorphous silica	500 lbs
Titanium dioxide	500 lbs
Stearic acid	500 lbs
Copper phthalocyanine	500 lbs
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

# Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

# **US State Regulations**

#### US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

# US. New Jersey Worker and Community Right-to-Know Act

# Chemical Identity

Calcium Carbonate (Limestone) Amorphous silica

# US. Massachusetts RTK - Substance List

#### Chemical Identity

Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand

# US. Pennsylvania RTK - Hazardous Substances

#### <u>Chemical Identity</u> Calcium Carbonate (Limestone) Amorphous silica

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

# **Other Regulations:**

**Regulatory VOC (less water** 8 g/l and exempt solvent):



VOC Method 310:	0.61 %
Inventory Status: Australia AICS:	All components in this product are listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	All components in this product are listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	All components in this product are listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	08/14/2015	
Version #:	1.0	
Further Information:	No data available.	



**Disclaimer:** 

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



# SAFETY DATA SHEET

# 1. Identification

#### Material name: SPECTREM 2 BRONZE Material: 947801 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

# Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

#### Contact person: Telephone: Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

# Hazard Classification

#### Health Hazards

Carcinogenicity	Category 2
Toxic to reproduction	Category 2

#### **Unknown toxicity - Health**

Acute toxicity, oral	56.84 %
Acute toxicity, dermal	57.69 %
Acute toxicity, inhalation, vapor	99.92 %
Acute toxicity, inhalation, dust	99.85 %
or mist	

# Label Elements

Hazard Symbol:



**Signal Word:** 

Warning

Hazard Statement:

Suspected of causing cancer. Suspected of damaging fertility or the unborn child.



Precautionary Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Calcium carbonate	471-34-1	30 - 60%
Calcium Carbonate (Limestone)	1317-65-3	10 - 30%
Stearic acid	57-11-4	1 - 5%
Iron oxide	1309-37-1	0.1 - 1%
Carbon Black	1333-86-4	0.1 - 1%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects, acute and delayed		

Symptoms: May cause skin and eye irritation.

#### Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.



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5. Fire-fighting measures	
General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) exting	uishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measure	S
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.
Conditions for safe storage, including any incompatibilities:	Store locked up.
	3/14



# 8. Exposure controls/personal protection

#### **Control Parameters**

#### **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
Calcium carbonate - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium carbonate - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Stearic acid - Respirable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Stearic acid - Inhalable fraction.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Iron oxide - Respirable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (2011)
Iron oxide - Fume.	PEL	10 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Iron oxide - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Iron oxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Iron oxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Carbon Black - Inhalable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (2011)
Carbon Black	PEL	3.5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Chemical name	Туре	Exposure Limit Values	Source
Calcium carbonate - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation



			296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Stearic acid	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stearic acid	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Carbon Black - Inhalable	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Carbon Black - Inhalable fraction.	TWA	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Carbon Black	TWA	3.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

#### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

#### Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

# 9. Physical and chemical properties

Appearance	
Physical state:	solid
Form:	Paste
Color:	Bronze colored
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.



Melting point/freezing point: No c	lata available.
Initial boiling point and boiling range: No c	lata available.
Flash Point: No c	lata available.
Evaporation rate: Slow	ver than Ether
Flammability (solid, gas): No	
Upper/lower limit on flammability or explosive lim	its
Flammability limit - upper (%): No c	lata available.
Flammability limit - lower (%): No c	lata available.
Explosive limit - upper (%): No c	lata available.
Explosive limit - lower (%): No c	lata available.
Vapor pressure: No c	lata available.
	ors are heavier than air and may travel along the floor and e bottom of containers.
Relative density: 1.44	
Solubility(ies)	
Solubility in water: Prac	tically Insoluble
Solubility (other): No c	lata available.
Partition coefficient (n-octanol/water): No c	lata available.
Auto-ignition temperature: No c	lata available.
Decomposition temperature: No c	ata available.
Viscosity: No c	lata available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# 11. Toxicological information

Information on likely routes of exposure			
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.		
Skin Contact:	Causes mild skin irritation.		
Eye contact:	Eye contact is possible and should be avoided.		



Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.		
Symptoms related to the physical, chemical and toxicological characteristics			
Inhalation:	No data available.		
Skin Contact:	No data available.		
Eye contact:	No data available.		
Ingestion:	No data available.		
Information on toxicological effe	cts		
Acute toxicity (list all possible	routes of exposure)		
Oral Product:	ATEmix: 39,299.8 mg/kg		
Dermal Product:	ATEmix: 18,819.13 mg/kg		
Inhalation Product:	Not classified for acute toxicity based on available data.		
Specified substance(s): Octamethylcyclotetrasilox ane	LC 50 (Rat): 36 mg/l		
Repeated dose toxicity Product:	No data available.		
Skin Corrosion/Irritation Product:	No data available.		
Specified substance(s): Calcium carbonate	in vivo (Rabbit): Not irritant Experimental result, Key study		
Stearic acid	in vivo (Rabbit): Not irritant Experimental result, Key study		
Iron oxide	in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study		
Carbon Black	in vivo (Rabbit): Not irritant Experimental result, Key study		
Octamethylcyclotetrasil oxane	in vivo (Rabbit): Not irritant Experimental result, Key study		

#### Serious Eye Damage/Eye Irritation



Product: Specified substance(s):	No data available.
Calcium carbonate	Rabbit, 24 - 72 hrs: Not irritating
Stearic acid	Rabbit, 27 - 72 hrs: Not irritating
Carbon Black	Rabbit, 24 - 72 hrs: Not irritating
Respiratory or Skin Sensitizatio Product:	n No data available.
Carcinogenicity Product:	Suspected of causing cancer.
IARC Monographs on the Evaluation	ation of Carcinogenic Risks to Humans:
Carbon Black	Overall evaluation: Possibly carcinogenic to humans.
No carcinogenic component	
US. OSHA Specifically Regulate No carcinogenic component	d Substances (29 CFR 1910.1001-1050): s identified
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Product:	Single Exposure No data available.
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.



### 12. Ecological information

# **Ecotoxicity:** Acute hazards to the aquatic environment: Fish **Product:** No data available. **Aquatic Invertebrates Product:** No data available. Chronic hazards to the aquatic environment: Fish **Product:** No data available. **Aquatic Invertebrates Product:** No data available. **Toxicity to Aquatic Plants Product:** No data available. Persistence and Degradability Biodegradation **Product:** No data available. **BOD/COD** Ratio Product: No data available. **Bioaccumulative potential Bioconcentration Factor (BCF) Product:** No data available. Specified substance(s): Octamethylcyclotetrasilox Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): ane 14,261 (Flow through) Partition Coefficient n-octanol / water (log Kow) No data available. Product:

Specified substance(s):	
Stearic acid	Log Kow: 8.23



No data available.
No data available.
Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
No data available.

# 14. Transport information

#### TDG:

Not Regulated

#### CFR / DOT:

Not Regulated

#### IMDG:

Not Regulated

#### 15. Regulatory information

#### **US Federal Regulations**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Toluene	1000 lbs.
Methanol	5000 lbs.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Delayed (Chronic) Health Hazard

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



#### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Toluene	1000 lbs.
Methanol	5000 lbs.

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium carbonate	10000 lbs
Calcium Carbonate	10000 lbs
(Limestone)	
Stearic acid	10000 lbs
Iron oxide	10000 lbs
Carbon Black	10000 lbs
Octamethylcyclotetrasiloxane	10000 lbs

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**

#### WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

#### US. New Jersey Worker and Community Right-to-Know Act

#### **Chemical Identity**

Calcium carbonate Calcium Carbonate (Limestone) Carbon Black

#### **US. Massachusetts RTK - Substance List**

#### **Chemical Identity**

Calcium carbonate Calcium Carbonate (Limestone) Crystalline Silica (Quartz)/ Silica Sand

#### US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Calcium carbonate Calcium Carbonate (Limestone)

#### US. Rhode Island RTK

#### Chemical Identity

Calcium carbonate Calcium Carbonate (Limestone)



#### International regulations

# Montreal protocol

Not applicable

#### Stockholm convention Not applicable

Rotterdam convention

Not applicable

#### Kyoto protocol Not applicable

#### VOC:

Regulatory VOC (less water and exempt solvent)	:	30 g/l
VOC Method 310	:	2.05 %



Inventory Status: Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	11/30/2018
Version #:	1.1
Further Information:	No data available.



**Disclaimer:** 

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



# **SAFETY DATA SHEET**

#### 1. Identification

#### Material name: SPECTREM 2 BUFF - 30 CTG Material: 947807 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

Contact person:
Telephone:
Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

#### 2. Hazard(s) identification

#### **Hazard Classification**

Health Hazards	
Carcinogenicity	Category 2
Toxic to reproduction	Category 2

#### **Unknown toxicity - Health**

Acute toxicity, oral	56.86 %
Acute toxicity, dermal	57.29 %
Acute toxicity, inhalation, vapor	99.92 %
Acute toxicity, inhalation, dust or mist	99.82 %
Unknown toxicity - Environment	
Acute hazards to the aquatic	92.76 %

Acule hazalus lo lhe aqualic	92.70 /0
environment	
Chronic hazards to the aquatic	100 %
environment	

#### **Label Elements**

Hazard Symbol:



Signal Word:

Warning

Hazard Statement:

Suspected of causing cancer. Suspected of damaging fertility or the unborn child.



Precautionary Statement:	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

# 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Calcium carbonate	471-34-1	30 - 60%
Calcium Carbonate (Limestone)	1317-65-3	10 - 30%
Stearic acid	57-11-4	1 - 5%
Titanium dioxide	13463-67-7	0.1 - 1%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.
Inhalation:	Move to fresh air.
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.
Most important symptoms/effects, acute and delayed	
Symptoms:	May cause skin and eye irritation.
Indication of immediate medical a	attention and special treatment needed
Treatment:	Symptoms may be delayed.
5. Fire-fighting measures	



General Fire Hazards:	No unusual fire or explosion hazards noted.		
Suitable (and unsuitable) e	Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.		
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.		
Special protective equipment an	d precautions for firefighters		
Special fire fighting procedures:	No data available.		
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
6. Accidental release measure	S		
Personal precautions, protective equipment and emergency procedures:	No data available.		
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.		
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.		
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.		
7. Handling and storage			
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.		
Conditions for safe storage, including any incompatibilities:	Store locked up.		

# 8. Exposure controls/personal protection



#### **Control Parameters**

# **Occupational Exposure Limits**

Chemical Identity	type	Exposure Limit Values	Source
Calcium carbonate -	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
Total dust.			Contaminants (29 CFR 1910.1000) (02 2006)
Calcium carbonate -	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
Respirable fraction.			Contaminants (29 CFR 1910.1000)
			(02 2006)
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total			Contaminants (29 CFR 1910.1000)
dust.			(02 2006)
Calcium Carbonate	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) -			Contaminants (29 CFR 1910.1000)
Respirable fraction.			(02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
			(2011)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
			(2011)
Titanium dioxide - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			Contaminants (29 CFR 1910.1000)
			(02 2006)

Chemical name	type	Exposure Limit Values	Source
Calcium carbonate - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Stearic acid	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stearic acid	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

#### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.



Hygiene measures:

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

#### 9. Physical and chemical properties

Appearance	
Physical state:	solid
Form:	Paste
Color:	Tan
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosition	ive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.43
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

#### 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.



Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
11. Toxicological information	
Information on likely routes of ex	posure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

#### Information on toxicological effects

### Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 37,307.15 mg/kg
Dermal Product:	ATEmix: 18,565.37 mg/kg
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Specified substance(s): Calcium carbonate	in vivo (Rabbit): Experimental result, Key study
Stearic acid	in vivo (Rabbit): Experimental result, Key study
Titanium dioxide	in vivo (Rabbit): Experimental result, Supporting study
Octamethylcyclotetrasil oxane	in vivo (Rabbit): Experimental result, Key study



Serious Eye Damage/Eye Irritat Product:	ntion No data available.		
Specified substance(s): Calcium carbonate	in vivo (Rabbit, 24 - 72 hrs): Not irritating		
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating		
Titanium dioxide	in vivo (Rabbit, 24 hrs): Not irritating		
Respiratory or Skin Sensitizatio Product:	n No data available.		
Carcinogenicity Product:	Suspected of causing cancer.		
IARC Monographs on the Evalu	ation of Carcinogenic Risks to Humans:		
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.		
<ul> <li>US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified</li> <li>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified</li> <li>Germ Cell Mutagenicity</li> </ul>			
In vitro Product:	No data available.		
In vivo Product:	No data available.		
Reproductive toxicity Product:	Suspected of damaging fertility or the unborn child.		
Specific Target Organ Toxicity - Single Exposure Product: No data available.			
Specific Target Organ Toxicity - Product:	- Repeated Exposure No data available.		
Aspiration Hazard Product:	No data available.		
Other effects:	No data available.		



# 12. Ecological information

# Ecotoxicity:

Acute hazards to the aquatic environment:		
Fish Product:	No data available.	
Specified substance(s): Octamethylcyclotetrasilox ane	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 14 d): 0.0085 - 0.013 mg/l Mortality	
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquation	environment:	
Fish Product:	No data available.	
<b>Specified substance(s):</b> Titanium dioxide	LC 50 (Oncorhynchus mykiss, 28 d): 7.31 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study	
Octamethylcyclotetrasilox ane	NOAEL (Oncorhynchus mykiss, 93 d): >= 4.4 µg/l Experimental result, Key study LC 50 (Oncorhynchus mykiss, 96 h): > 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): < 23 µg/l Experimental result, Supporting study LC 80 (Oncorhynchus mykiss, 18 d): 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): >= 31 µg/l Experimental result, Supporting study	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	

**Bioaccumulative Potential** 



Bioconcentration Factor (BCF) Product: No data available.		
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): 3,800 - 4,200 (Flow through)	
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.	
Specified substance(s): Stearic acid	Log Kow: 8.23	
Mobility in Soil:	No data available.	
Other Adverse Effects:	No data available.	
13. Disposal considerations		
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.	
Contaminated Packaging:	No data available.	
14. Transport information		
TDG:		
Not Regulated		
CFR / DOT:		
Not Regulated		
IMDG:		

Not Regulated

### 15. Regulatory information

#### **US Federal Regulations**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.



#### CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u> Cyclohexane Toluene Methanol

#### Reportable quantity

1000 lbs. 1000 lbs. 5000 lbs.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Delayed (Chronic) Health Hazard

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Toluene	1000 lbs.
Methanol	5000 lbs.

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium carbonate	500 lbs
Calcium Carbonate	500 lbs
(Limestone)	
Stearic acid	500 lbs
Titanium dioxide	500 lbs
Octamethylcyclotetrasiloxa	500 lbs
ne	

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

#### US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Calcium carbonate Calcium Carbonate (Limestone)



#### US. Massachusetts RTK - Substance List

<u>Chemical Identity</u> Calcium carbonate Calcium Carbonate (Limestone) Crystalline Silica (Quartz)/ Silica Sand

#### US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Calcium carbonate Calcium Carbonate (Limestone)

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

#### **Other Regulations:**

Regulatory VOC (less water	30 g/l
and exempt solvent):	
VOC Method 310:	2.11 %

#### **Inventory Status:**

Australia AICS:

EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory:

Philippines PICCS:

New Zealand Inventory of Chemicals:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

One or more components in this product are

One or more components in this product are not listed on or exempt from the Inventory.

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One or more components in this product are not listed on or exempt from the Inventory.



Canada DSL Inventory List:

US TSCA Inventory:

All components in this product are listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

#### 16.Other information, including date of preparation or last revision

Revision Date:	08/08/2016
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



# SAFETY DATA SHEET

#### 1. Identification

Material name: SPECTREM 2 CHAMPAGNE - 30 CTG Material: 947875 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

Contact person:
Telephone:
Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

#### 2. Hazard(s) identification

#### **Hazard Classification**

Health	n Haza	ards

Carcinogenicity	Category 1A
nknown toxicity - Health	
Acute toxicity, oral	50.65 %
Acute toxicity, dermal	51.53 %
Acute toxicity, inhalation, vapor	99.47 %
Acute toxicity, inhalation, dust or mist	99.99 %
nknown toxicity - Environment	
Acute hazards to the aquatic environment	91.14 %
Chronic hazards to the aquatic environment	100 %

#### Label Elements

U

U

Hazard Symbol:



Signal Word:

Danger

**Hazard Statement:** 

May cause cancer.

Precautionary Statement:



Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Titanium dioxide	13463-67-7	0.5 - 1.5%
Stearic acid	57-11-4	0.5 - 1.5%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause skin and eye irritation.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Symptoms may be delayed.	
5. Fire-fighting measures		
General Fire Hazards:	No unusual fire or explosion hazards noted.	



# Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment and	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measures	5
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.
Conditions for safe storage, including any incompatibilities:	Store locked up.

# 8. Exposure controls/personal protection

#### Control Parameters Occupational Exposure Limits



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Chemical Identity	type	Exposure Limit Values	Source
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total			Contaminants (29 CFR 1910.1000)
dust. Calcium Carbonate	PEL	5 mg/m3	(02 2006) US. OSHA Table Z-1 Limits for Air
(Limestone) -	FEL	5 119/113	Contaminants (29 CFR 1910.1000)
Respirable fraction.			(02 2006)
Amorphous silica	TWA	20 millions	US. OSHA Table Z-3 (29 CFR
		of particles	1910.1000) (2000)
		per cubic	
		foot of air	
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR
Titanium dioxide	TWA	10 m a/m 2	1910.1000) (2000) US. ACGIH Threshold Limit Values
ritanium dioxide	IVVA	10 mg/m3	(2011)
Titanium dioxide - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			Contaminants (29 CFR 1910.1000)
			(02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
		0.005	(2011)
Crystalline Silica	TWA	0.025	US. ACGIH Threshold Limit Values
(Quartz)/ Silica Sand - Respirable fraction.		mg/m3	(2011)
Crystalline Silica	TWA	2.4	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -		millions of	1910.1000) (2000)
Respirable.		particles	
-		per cubic	
		foot of air	
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR
			1910.1000) (2000)
Crystalline Silica	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand - Total dust.			1910.1000) (2000)
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Chemical name	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)



Appropriate Engineering Controls	Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.
Individual protection measures, s	such as personal protective equipment
General information:	Use personal protective equipment as required.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.

# 9. Physical and chemical properties

#### Appearance

••	
Physical state:	solid
Form:	Paste
Color:	Off-white
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.34
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.



Viscosity:	No data available.
10. Stability and reactivity	
Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
11. Toxicological information	n

#### Information on likely routes of exposure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 59,945.73 mg/kg
Dermal Product:	ATEmix: 44,431.13 mg/kg
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.

#### Serious Eye Damage/Eye Irritation



Product:	No data available.	
Specified substance(s): Amorphous silica	in vivo (Rabbit, 24 hrs): Not irritating	
Titanium dioxide	in vivo (Rabbit, 24 - 72 hrs): Not irritating	
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating	
Respiratory or Skin Sensitization Product:	n No data available.	
Carcinogenicity Product:	No data available.	
IARC Monographs on the Evalua	ation of Carcinogenic Risks to Humans:	
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.	
Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.	
(Quartz)/ Silica Sand	n (NTP) Report on Carcinogens: Known To Be Human Carcinogen. d Substances (29 CFR 1910.1001-1050):	
No carcinogenic com		
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
Reproductive toxicity Product:	No data available.	
Specific Target Organ Toxicity - Single ExposureProduct:No data available.		
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.	
Aspiration Hazard Product:	No data available.	



Other effects:

No data available.

# 12. Ecological information

#### Ecotoxicity:

#### Acute hazards to the aquatic environment:

Fish Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality
Aquatic Invertebrates Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication
Chronic hazards to the aquatic	environment:
Fish Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l experimental result
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative Potential Bioconcentration Factor (BC Product:	F) No data available.
Partition Coefficient n-octand Product:	ol / water (log Kow) No data available.



Specified substance(s): Stearic acid	Log Kow: 8.23
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDG:	
Not Regulated	
CFR / DOT:	
Not Regulated	
IMDG:	

Not Regulated

#### 15. Regulatory information

#### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity	
Methanol	5000 lbs.	

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories Delayed (Chronic) Health Hazard

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



SARA 304 Emergency Release Notification				
Chemical Identity	<b>Reportable quantity</b>			
Methanol	5000 lbs.			

#### SARA 311/312 Hazardous Chemical

Chemical IdentityThreshold Planning QuantityCalcium Carbonate500 lbs(Limestone)500 lbsAmorphous silica500 lbsTitanium dioxide500 lbsStearic acid500 lbsCrystalline Silica (Quartz)/500 lbsSilica Sand500 lbs

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

#### US. New Jersey Worker and Community Right-to-Know Act

#### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica

#### US. Massachusetts RTK - Substance List

#### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand

#### US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

#### **Other Regulations:**

Regulatory VOC (less water	8 g/l
and exempt solvent):	
VOC Method 310:	0.61 %

#### Inventory Status: Australia AICS:

All components in this product are listed on or



exempt from the Inventory.

	exempt from the inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	All components in this product are listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	All components in this product are listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.

## 16.Other information, including date of preparation or last revision

Revision Date:	08/14/2015
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.





## SAFETY DATA SHEET

#### 1. Identification

Material name: SPECTREM 2 CHARCOAL - 30 CTG Material: 947873 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

Contact person:
Telephone:
Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

#### 2. Hazard(s) identification

#### **Hazard Classification**

Hea	lth	Hazards	

Carcinogenicity	Category 1A
Unknown toxicity - Health	
Acute toxicity, oral	50.31 %
Acute toxicity, dermal	51.82 %
Acute toxicity, inhalation, vapor	99.47 %
Acute toxicity, inhalation, dust or mist	99.99 %
Unknown toxicity - Environment	
Acute hazards to the aquatic environment	91.03 %
Chronic hazards to the aquatic environment	100 %

#### Label Elements

Hazard Symbol:



Signal Word:

Danger

**Hazard Statement:** 

May cause cancer.

Precautionary Statement:



Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Titanium dioxide	13463-67-7	0.5 - 1.5%
Stearic acid	57-11-4	0.5 - 1.5%
Carbon Black	1333-86-4	0.1 - 1%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.			
Inhalation:	Move to fresh air.			
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.			
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.			
Most important symptoms/effect	Most important symptoms/effects, acute and delayed			
Symptoms:	May cause skin and eye irritation.			
Indication of immediate medical attention and special treatment needed				
Treatment:	Symptoms may be delayed.			
5. Fire-fighting measures				
General Fire Hazards:	No unusual fire or explosion hazards noted.			



## Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.	
Special protective equipment and	d precautions for firefighters	
Special fire fighting procedures:	No data available.	
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
6. Accidental release measures	5	
Personal precautions, protective equipment and emergency procedures:	No data available.	
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.	
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.	
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.	
7. Handling and storage		
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.	
Conditions for safe storage, including any incompatibilities:	Store locked up.	

## 8. Exposure controls/personal protection

#### Control Parameters Occupational Exposure Limits



Chemical Identity	type	Exposure Limit Values	Source
		•	
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total			Contaminants (29 CFR 1910.1000)
dust. Calcium Carbonate	PEL	5 mg/m3	(02 2006) US. OSHA Table Z-1 Limits for Air
(Limestone) -	FEL	5 mg/m3	Contaminants (29 CFR 1910.1000)
Respirable fraction.			(02 2006)
Amorphous silica	TWA	20 millions	US. OSHA Table Z-3 (29 CFR
•		of particles	1910.1000) (2000)
		per cubic	
		foot of air	
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR
			1910.1000) (2000)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
Titanium dioxide - Total	PEL	15 m m m m m m m m m m m m m m m m m m m	(2011) US. OSHA Table Z-1 Limits for Air
dust.	PEL	15 mg/m3	Contaminants (29 CFR 1910.1000)
dust.			(02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
		. • g, •	(2011)
Carbon Black -	TWA	3 mg/m3	US. ACGIH Threshold Limit Values
Inhalable fraction.			(2011)
Carbon Black	PEL	3.5 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000)
			(02 2006)
Crystalline Silica	TWA	0.025	US. ACGIH Threshold Limit Values
(Quartz)/ Silica Sand - Respirable fraction.		mg/m3	(2011)
Crystalline Silica	TWA	2.4	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -	1007	millions of	1910.1000) (2000)
Respirable.		particles	
		per cubic	
		foot of air	
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR
			1910.1000) (2000)
Crystalline Silica	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -			1910.1000) (2000)
Total dust.			

Chemical name	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Carbon Black - Inhalable	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Carbon Black	TWAEV	3.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Carbon Black	TWA	3.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Crystalline Silica	TWA	0.025	Canada. British Columbia OELs.



	Quartz)/ Silica Sand - Respirable fraction.		mg/m3	(Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
((	Crystalline Silica Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
((	Crystalline Silica Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

#### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

#### Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.		
Eye/face protection:	Wear goggles/face shield.		
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.		
Other:	No data available.		
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.		
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.		

### 9. Physical and chemical properties

Appearance		
Physical state:	solid	
Form:	Paste	
Color:	Dark gray	
Odor:	Mild sharp	
Odor threshold:	No data available.	
pH:	No data available.	
Melting point/freezing point:	No data available.	
Initial boiling point and boiling range:	No data available.	
Flash Point:	No data available.	
Evaporation rate:	Slower than Ether	
Flammability (solid, gas):	No	
Upper/lower limit on flammability or explosi	ve limits	
Flammability limit - upper (%):	No data available.	
Flammability limit - lower (%):	No data available.	
Explosive limit - upper (%):	No data available.	
Explosive limit - lower (%):	No data available.	



Vapor pressure:	No data available.	
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.	
Relative density:	1.34	
Solubility(ies)		
Solubility in water:	Practically Insoluble	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/water):	No data available.	
Auto-ignition temperature:	No data available.	
Decomposition temperature:	No data available.	
Viscosity:	No data available.	

## 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11. Toxicological information

#### Information on likely routes of exposure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral Product:	1,780.00 mg/kg ATEmix : 60,810.11 mg/kg
Dermal Product:	ATEmix: 44,499.45 mg/kg
Inhalation	



Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irritati Product:	on No data available.
Specified substance(s): Amorphous silica	in vivo (Rabbit, 24 hrs): Not irritating
Titanium dioxide	in vivo (Rabbit, 24 - 72 hrs): Not irritating
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating
Carbon Black	in vivo (Rabbit, 24 - 72 hrs): Not irritating
Respiratory or Skin Sensitizatio Product:	n No data available.
Carcinogenicity Product:	No data available.
IARC Monographs on the Evalu	ation of Carcinogenic Risks to Humans:
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.
Carbon Black	Overall evaluation: Possibly carcinogenic to humans.
Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.
US. National Toxicology Progra	m (NTP) Report on Carcinogens:

Crystalline (Quartz)/ Silica Known To Be Human Carcinogen. Silica Sand

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified



#### **Germ Cell Mutagenicity**

In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity - Product:	<b>Single Exposure</b> No data available.
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

## 12. Ecological information

#### **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

Fish Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality
Aquatic Invertebrates Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication
Chronic hazards to the aquati	c environment:
Fish Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l experimental



Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative Potential Bioconcentration Factor (Be Product:	CF) No data available.
Partition Coefficient n-octar Product:	nol / water (log Kow) No data available.
Specified substance(s): Stearic acid	Log Kow: 8.23
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	

#### TDG:

Not Regulated

#### CFR / DOT:

Not Regulated

#### IMDG:



Not Regulated

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#### **US Federal Regulations**

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities. CERCLA Hazardous Substance List (40 CFR 302.4): Chemical Identity Methanol Reportable quantity 5000 lbs.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## Hazard categories

Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	<b>Reportable quantity</b>
Copper phthalocyanine	
Methanol	5000 lbs.

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	500 lbs
(Limestone)	
Amorphous silica	500 lbs
Titanium dioxide	500 lbs
Stearic acid	500 lbs
Carbon Black	500 lbs
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

None present of none present in regulated quantities.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### **US State Regulations**

#### US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.



All components in this product are listed on or

All components in this product are listed on or

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are

All components in this product are listed on or

All components in this product are listed on or

One or more components in this product are

All components in this product are listed on or

All components in this product are listed on or

not listed on or exempt from the Inventory.

not listed on or exempt from the Inventory.

#### US. New Jersey Worker and Community Right-to-Know Act

#### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica

#### **US. Massachusetts RTK - Substance List**

Chemical Identity

Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand

#### US. Pennsylvania RTK - Hazardous Substances

#### Chemical Identity

Calcium Carbonate (Limestone) Amorphous silica

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

#### **Other Regulations:**

Regulatory VOC (less water	8 g/l
and exempt solvent):	
VOC Method 310:	0.59 %

#### **Inventory Status:**

Australia AICS:

Canada DSL Inventory List:

EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory:

Philippines PICCS:

US TSCA Inventory:



New Zealand Inventory of Chemicals:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

All components in this product are listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

### 16.Other information, including date of preparation or last revision

Revision Date:	08/14/2015
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



Version: 1.1 Revision Date: 07/21/2018

# SAFETY DATA SHEET

#### 1. Identification

#### Material name: SPECTREM 2 CLEAR Material: 947800 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

#### Contact person: Telephone: Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

#### 2. Hazard(s) identification

#### Hazard Classification

#### Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A

#### **Unknown toxicity - Health**

Acute toxicity, oral	12.79 %
Acute toxicity, dermal	15.41 %
Acute toxicity, inhalation, vapor	99.93 %
Acute toxicity, inhalation, dust	97.4 %
or mist	

#### Label Elements

#### Hazard Symbol:



Signal Word:

Hazard Statement:

Causes skin irritation. Causes serious eye irritation.

Warning



Precautionary Statements	
Prevention:	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing.
Hazard(s) not otherwise classified (HNOC):	None.

## 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Amorphous silica	7631-86-9	10 - 30%
Aminosilane	919-30-2	1 - 5%
Hexamethyldisilazane	999-97-3	1 - 5%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures			
Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.		
Inhalation:	Move to fresh air.		
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.		
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.		
Most important symptoms/effects, acute and delayed			
Symptoms:	Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.		
Indication of immediate medical attention and special treatment needed			
Treatment:	Get medical attention if symptoms occur.		
5. Fire-fighting measures			
General Fire Hazards:	No unusual fire or explosion hazards noted.		



#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.	
Special protective equipment an	d precautions for firefighters	
Special fire fighting procedures:	No data available.	
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
6. Accidental release measure	s	
Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.	
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.	
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.	
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.	
7. Handling and storage		
Precautions for safe handling:	Avoid contact with eyes. Wash hands thoroughly after handling. Avoid contact with skin. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.	
Conditions for safe storage, including any incompatibilities:	Store away from incompatible materials. Store in original tightly closed container.	
8. Exposure controls/personal protection		

## 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 



Chemical Identity	Туре	Exposure Limit Values	Source
Amorphous silica	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

Chemical name	Туре	Exposure Limit Values	Source
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

#### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

#### Individual protection measures, such as personal protective equipment

General information:	Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Avoid contact with eyes. Observe good industrial hygiene practices. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product.

### 9. Physical and chemical properties



#### Appearance

Physical state:	solid
Form:	Paste
Color:	Colorless
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosition	ive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.028
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

## 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.



11. Toxicological information		
Information on likely routes of e Inhalation:	exposure In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
Skin Contact:	Causes skin irritation.	
Eye contact:	Causes serious eye irritation.	
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.	
Symptoms related to the physic	al, chemical and toxicological characteristics	
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Ingestion:	No data available.	
Information on toxicological effe	ects	
Acute toxicity (list all possible	e routes of exposure)	
Oral Product:	ATEmix: 18,737.41 mg/kg	
Dermal Product:	ATEmix: 23,830 mg/kg	
Inhalation Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): Amorphous silica	LC 50 (Rat): > 2.08 mg/l	
Aminosilane	LC 50 (Rat): > 7.35 mg/l	
Hexamethyldisilazane	LC 50 (Rat): 8,700 mg/m3	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	



Specified substance(s): Amorphous silica	in vivo (Rabbit): Not irritant Experimental result, Key study
Aminosilane	in vivo (Rabbit): Highly irritating Experimental result, Supporting study
Hexamethyldisilazane	Irritating in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study
Serious Eye Damage/Eye Irritat Product: Specified substance(s):	ion No data available.
Amorphous silica	Rabbit, 24 hrs: Not irritating
Aminosilane	Rabbit, 24 - 72 hrs: Highly irritating
Hexamethyldisilazane	Rabbit, 24 - 72 hrs: Not irritating
Respiratory or Skin Sensitizatio Product:	n No data available.
Carcinogenicity Product:	No data available.
IARC Monographs on the Evalu No carcinogenic componen	ation of Carcinogenic Risks to Humans: ts identified
US. National Toxicology Progra No carcinogenic componen	m (NTP) Report on Carcinogens: ts identified
US. OSHA Specifically Regulate No carcinogenic componen	ed Substances (29 CFR 1910.1001-1050): ts identified
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity Product:	- Single Exposure No data available.
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.



Aspiration Hazard Product:	No data available.
Other effects:	No data available.
12. Ecological information	
Ecotoxicity:	
Acute hazards to the aquatic of	environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Chronic hazards to the aquati	c environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	CF) No data available.



Product:	No data available.
Specified substance(s): Hexamethyldisilazane	Log Kow: 2.62
Mobility in soil:	No data available.
Other adverse effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	

#### TDG:

Not Regulated

#### CFR / DOT:

Not Regulated

#### IMDG:

Not Regulated

#### 15. Regulatory information

#### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	<b>Reportable quantity</b>
Ethyl alcohol	100 lbs.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate (Acute) Health Hazards



#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Ethyl alcohol	100 lbs.

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Amorphous silica	10000 lbs
Aminosilane	10000 lbs
Hexamethyldisilazane	10000 lbs

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

#### **US State Regulations**

#### US. California Proposition 65



#### WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

US. New Jersey Worker and Community Right-to-Know Act

#### **Chemical Identity**

Amorphous silica Hexamethyldisilazane

#### **US. Massachusetts RTK - Substance List**

Chemical Identity Amorphous silica

#### US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Amorphous silica

#### Anophous silica

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

#### International regulations

#### **Montreal protocol**

Not applicable

#### Stockholm convention

Not applicable



#### **Rotterdam convention**

Not applicable

#### Kyoto protocol Not applicable

#### VOC:

Regulatory VOC (less water and exempt solvent)	:	34 g/l
VOC Method 310	:	3.27 %



Inventory Status: Australia AICS:	All components in this product are listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	All components in this product are listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	All components in this product are listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.

## 16.Other information, including date of preparation or last revision

Revision Date:	07/21/2018
Version #:	1.1
Further Information:	No data available.



**Disclaimer:** 

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



## **SAFETY DATA SHEET**

#### 1. Identification

Material name: SPECTREM 2 DARK BRONZE - 30 CTG Material: 947857 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

Contact person:
Telephone:
Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

#### 2. Hazard(s) identification

#### **Hazard Classification**

Health Hazards	
Carcinogenicity	Category 2
Toxic to reproduction	Category 2

#### **Unknown toxicity - Health**

Acute toxicity, oral	56.51 %
Acute toxicity, dermal	57.77 %
Acute toxicity, inhalation, vapor	99.92 %
Acute toxicity, inhalation, dust or mist	99.85 %
Unknown toxicity - Environment Acute hazards to the aquatic	92.11 %
	52.11 /0

•	
environment	
Chronic hazards to the aquatic	100 %
environment	

#### **Label Elements**

Hazard Symbol:



Signal Word:

Warning

Hazard Statement:

Suspected of causing cancer. Suspected of damaging fertility or the unborn child.



Precautionary Statement:	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Calcium carbonate	471-34-1	30 - 60%
Calcium Carbonate (Limestone)	1317-65-3	10 - 30%
Stearic acid	57-11-4	1 - 5%
Iron oxide	1309-37-1	0.5 - 1.5%
Carbon Black	1333-86-4	0.1 - 1%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.		
Inhalation:	Move to fresh air.		
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.		
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.		
Most important symptoms/effects, acute and delayed			
Symptoms:	May cause skin and eye irritation.		
Indication of immediate medical attention and special treatment needed			
Treatment:	Symptoms may be delayed.		



5. Fire-fighting measures			
General Fire Hazards:	No unusual fire or explosion bazards noted		
	No unusual fire or explosion hazards noted.		
Suitable (and unsuitable) ex	xtinguishing media		
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.		
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.		
Special protective equipment an	d precautions for firefighters		
Special fire fighting procedures:	No data available.		
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
6. Accidental release measures	S		
Personal precautions, protective equipment and emergency procedures:	No data available.		
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.		
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.		
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.		
7. Handling and storage			
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.		
Conditions for safe storage, including any incompatibilities:	Store locked up.		



## 8. Exposure controls/personal protection

#### **Control Parameters**

#### **Occupational Exposure Limits**

Chemical Identity	type	Exposure Limit Values	Source
Calcium carbonate - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium carbonate - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Iron oxide - Respirable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (2011)
Iron oxide - Fume.	PEL	10 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Carbon Black - Inhalable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (2011)
Carbon Black	PEL	3.5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)



Chemical name	type	Exposure Limit Values	Source
Calcium carbonate - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Stearic acid	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stearic acid	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Carbon Black - Inhalable	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Carbon Black	TWAEV	3.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Carbon Black	TWA	3.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

#### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

#### Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

#### 9. Physical and chemical properties



#### Appearance

Physical state:	solid
Form:	Paste
Color:	Bronze colored
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.40
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

## 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

#### Information on likely routes of exposure



Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 39,925.44 mg/kg
Dermal Product:	ATEmix: 18,865.44 mg/kg
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Specified substance(s): Calcium carbonate	in vivo (Rabbit): Experimental result, Key study
Stearic acid	in vivo (Rabbit): Experimental result, Key study
Iron oxide	in vivo (Rabbit): Experimental result, Weight of Evidence study
Carbon Black	in vivo (Rabbit): Experimental result, Key study
Octamethylcyclotetrasil oxane	in vivo (Rabbit): Experimental result, Key study

#### Serious Eye Damage/Eye Irritation

Product: No data available.



Specified substance(s): Calcium carbonate	in vivo (Rabbit, 24 - 72 hrs): Not irritating
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating
Iron oxide	in vivo (Rabbit, 1 - 72 hrs): Not irritating
Carbon Black	in vivo (Rabbit, 24 - 72 hrs): Not irritating
Respiratory or Skin Sensitizatio Product:	No data available.
Carcinogenicity Product:	Suspected of causing cancer.
IARC Monographs on the Evalu	ation of Carcinogenic Risks to Humans:
Carbon Black	Overall evaluation: Possibly carcinogenic to humans.
US. National Toxicology Progra No carcinogenic con	mm (NTP) Report on Carcinogens: nponents identified
US. OSHA Specifically Regulate No carcinogenic con	ed Substances (29 CFR 1910.1001-1050): nponents identified
Germ Cell Mutagenicity	
In vitro Product:	No data available.
	no data avaliable.
In vivo Product:	No data available.
In vivo	
In vivo Product: Reproductive toxicity	No data available. Suspected of damaging fertility or the unborn child.
In vivo Product: Reproductive toxicity Product: Specific Target Organ Toxicity	No data available. Suspected of damaging fertility or the unborn child. - <b>Single Exposure</b> No data available.
In vivo Product: Reproductive toxicity Product: Specific Target Organ Toxicity Product: Specific Target Organ Toxicity	No data available. Suspected of damaging fertility or the unborn child. - Single Exposure No data available. - Repeated Exposure



# 12. Ecological information

# Ecotoxicity:

Acute hazards to the aquatic environment:		
Fish Product:	No data available.	
Specified substance(s): Octamethylcyclotetrasilox ane	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 14 d): 0.0085 - 0.013 mg/l Mortality	
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquatic	environment:	
Fish Product:	No data available.	
Specified substance(s): Iron oxide	NOAEL (Pimephales promelas, 33 d): 1.6 mg/l Experimental result, Supporting study	
Carbon Black	NOAEL (Salmo sp., 30 d): 17 mg/l QSAR QSAR, Key study	
Octamethylcyclotetrasilox ane	NOAEL (Oncorhynchus mykiss, 93 d): >= 4.4 µg/l Experimental result, Key study LC 50 (Oncorhynchus mykiss, 96 h): > 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): < 23 µg/l Experimental result, Supporting study LC 80 (Oncorhynchus mykiss, 18 d): 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): >= 31 µg/l Experimental result, Supporting study	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	



Bioaccumulative Potential Bioconcentration Factor (BC Product:	F) No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): 3,800 - 4,200 (Flow through)
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.
Specified substance(s): Stearic acid	Log Kow: 8.23
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDG:	
Not Regulated	
CFR / DOT:	

Not Regulated

# IMDG:

Not Regulated

# 15. Regulatory information

# **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.



# CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical	Identity
Cyclohexa	ne
Toluene	
Methanol	

# Reportable quantity

1000 lbs. 1000 lbs. 5000 lbs.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

# Hazard categories

Delayed (Chronic) Health Hazard

# SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Toluene	1000 lbs.
Methanol	5000 lbs.

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium carbonate	500 lbs
Calcium Carbonate	500 lbs
(Limestone)	
Stearic acid	500 lbs
Iron oxide	500 lbs
Carbon Black	500 lbs
Octamethylcyclotetrasiloxa	500 lbs
ne	

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### US State Regulations

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

#### US. New Jersey Worker and Community Right-to-Know Act

#### **Chemical Identity**

Calcium carbonate Calcium Carbonate (Limestone) Carbon Black



# US. Massachusetts RTK - Substance List

<u>Chemical Identity</u> Calcium carbonate Calcium Carbonate (Limestone) Crystalline Silica (Quartz)/ Silica Sand

# US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Calcium carbonate Calcium Carbonate (Limestone)

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

## **Other Regulations:**

Other Regulations:		
Regulatory VOC (less water	29 g/l	
and exempt solvent): VOC Method 310:	2.03 %	
Inventory Status: Australia AICS:		One or more components in this product are not listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:		One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:		One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:		One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):		One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:		One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:		One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:		All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:		One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS: New Zealand Inventory of Chemicals:		not listed on or exempt from the Inventory. One or more components in this product are not listed on or exempt from the Inventory. All components in this product are listed on or exempt from the Inventory. One or more components in this product are

One or more components in this product are not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:



Canada DSL Inventory List:

All components in this product are listed on or exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	08/08/2016
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



# SAFETY DATA SHEET

# 1. Identification

Material name: SPECTREM 2 DUSTY ROSE - 30 CTG Material: 947899 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

#### Contact person: **Telephone: Emergency telephone number:**

**EH&S** Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

#### **Hazard Classification**

Health Hazards	
Carcinogenicity	Category 1A
Toxic to reproduction	Category 2

#### **Unknown toxicity - Health**

Acute toxicity, oral	49.33 %
Acute toxicity, dermal	51.11 %
Acute toxicity, inhalation, vapor	99.9 %
Acute toxicity, inhalation, dust or mist	98.81 %
nown toxicity - Environment	

# Unkn

Acute hazards to the aquatic	92.02 %
environment	
Chronic hazards to the aquatic	100 %
environment	

#### Label Elements

Hazard Symbol:



Danger

**Signal Word:** 

**Hazard Statement:** 

May cause cancer. Suspected of damaging fertility or the unborn child.



Precautionary Statement: Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

# 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Titanium dioxide	13463-67-7	0.5 - 1.5%
Stearic acid	57-11-4	0.5 - 1.5%
Iron oxide	1309-37-1	0.1 - 1%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects, acute and delayed		

Symptoms: May cause skin and eye irritation.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed.



5. Fire-fighting measures	
General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) ex	xtinguishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measures	s
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
7. Handling and storage	
Precautions for safe handling:	Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required.
Conditions for safe storage, including any incompatibilities:	Store locked up.



# 8. Exposure controls/personal protection

# **Control Parameters**

# **Occupational Exposure Limits**

Chemical Identity	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Amorphous silica	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Iron oxide - Respirable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (2011)
Iron oxide - Fume.	PEL	10 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Crystalline Silica (Quartz)/ Silica Sand - Total dust.	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

Chemical name	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational



			Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Amorphous silica <i>-</i> Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Crystalline Silica (Quartz)/ Silica Sand -	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the



	Respirable dust.	Quality of the Work Environment) 2008)	(12
	ropriate Engineering ontrols	Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational expo limits and minimize the risk of inhalation of dust.	sure
Indiv	vidual protection measures	such as personal protective equipment	
	General information:	Use personal protective equipment as required.	
	Eye/face protection:	Wear goggles/face shield.	
	Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.	
	Other:	No data available.	
	Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice fr local supervisor.	om
	Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instruction before use.	

# 9. Physical and chemical properties

#### Appearance

Appearance	
Physical state:	solid
Form:	Paste
Color:	Pink
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosive	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.34
Solubility(ies)	



Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# 11. Toxicological information

# Information on likely routes of exposure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

## Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral Product:	1,780.00 mg/kg ATEmix : 41,798.59 mg/kg
Dermal Product:	ATEmix: 12,479.89 mg/kg
Inhalation Product:	No data available.

#### **Repeated dose toxicity**



Product:	No data available.		
Skin Corrosion/Irritation Product:	No data available.		
Specified substance(s): Amorphous silica	in vivo (Rabbit): Experimental result, Key study		
Titanium dioxide	in vivo (Rabbit): Experimental result, Supporting study		
Stearic acid	in vivo (Rabbit): Experimental result, Key study		
Iron oxide	in vivo (Rabbit): Experimental result, Weight of Evidence study		
Octamethylcyclotetrasil oxane	in vivo (Rabbit): Experimental result, Key study		
Serious Eye Damage/Eye Irritatio Product:	on No data available.		
Specified substance(s): Amorphous silica	in vivo (Rabbit, 24 hrs): Not irritating		
Titanium dioxide	in vivo (Rabbit, 24 hrs): Not irritating		
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating		
Iron oxide	in vivo (Rabbit, 1 - 72 hrs): Not irritating		
Respiratory or Skin Sensitization Product:	n No data available.		
Carcinogenicity			

arcinogenicity Product:

No data available.



# IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: Titanium dioxide Overall evaluation: Possibly carcinogenic to humans. **Crystalline Silica** Overall evaluation: Carcinogenic to humans. (Quartz)/ Silica Sand US. National Toxicology Program (NTP) Report on Carcinogens: Silica Known To Be Human Carcinogen. Crystalline (Quartz)/ Silica Sand US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified **Germ Cell Mutagenicity** In vitro **Product:** No data available. In vivo Product: No data available. **Reproductive toxicity** Product: Suspected of damaging fertility or the unborn child. Specific Target Organ Toxicity - Single Exposure **Product:** No data available. Specific Target Organ Toxicity - Repeated Exposure **Product:** No data available. **Aspiration Hazard Product:** No data available. Other effects: No data available.

# 12. Ecological information

# Ecotoxicity:

# Acute hazards to the aquatic environment:

Fish Product:

No data available.

# Specified substance(s):

Octamethylcyclotetrasilox LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 14 d): 0.0085



ane	- 0.013 mg/l Mortality	
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquati	c environment:	
Fish Product:	No data available.	
<b>Specified substance(s):</b> Titanium dioxide	LC 50 (Oncorhynchus mykiss, 28 d): 7.31 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study	
Iron oxide	NOAEL (Pimephales promelas, 33 d): 1.6 mg/l Experimental result, Supporting study	
Octamethylcyclotetrasilox ane	NOAEL (Oncorhynchus mykiss, 93 d): >= 4.4 µg/l Experimental result, Key study LC 50 (Oncorhynchus mykiss, 96 h): > 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): < 23 µg/l Experimental result, Supporting study LC 80 (Oncorhynchus mykiss, 18 d): 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): >= 31 µg/l Experimental result, Supporting study	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative Potential Bioconcentration Factor (BCF) Product: No data available.		
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): 3,800 - 4,200 (Flow through)	
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.	



Log Kow: 8.23
No data available.
No data available.
Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
No data available.

#### TDG:

Not Regulated

#### CFR / DOT:

Not Regulated

#### IMDG:

Not Regulated

# 15. Regulatory information

#### **US Federal Regulations**

- TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.
- US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

# CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Toluene	1000 lbs.
Ethyl alcohol	100 lbs.
Acetic acid	5000 lbs.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Delayed (Chronic) Health Hazard



#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	<b>Reportable quantity</b>
Cyclohexane	1000 lbs.
Toluene	1000 lbs.
Ethyl alcohol	100 lbs.
Acetic acid	5000 lbs.

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	500 lbs
(Limestone)	
Amorphous silica	500 lbs
Titanium dioxide	500 lbs
Stearic acid	500 lbs
Iron oxide	500 lbs
Octamethylcyclotetrasiloxa	500 lbs
ne	
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

# US. New Jersey Worker and Community Right-to-Know Act

#### Chemical Identity

Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand

#### **US. Massachusetts RTK - Substance List**

<u>Chemical Identity</u> Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand

#### US. Pennsylvania RTK - Hazardous Substances

#### Chemical Identity

Calcium Carbonate (Limestone) Amorphous silica



# US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Other Regulations:	
Regulatory VOC (less water and exempt solvent):	34 g/l
VOC Method 310:	2.54 %
Inventory Status: Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision



Revision Date:	08/08/2016
Version #:	1.1
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



Version: 1.1 Revision Date: 11/30/2018

# SAFETY DATA SHEET

# 1. Identification

#### Material name: SPECTREM 2 GRAY Material: 947853 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

# Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

#### Contact person: Telephone: Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

## Hazard Classification

#### Health Hazards

Carcinogenicity

Category 1A

# **Unknown toxicity - Health**

Acute toxicity, oral	49.08 %
Acute toxicity, dermal	51.21 %
Acute toxicity, inhalation, vapor	99.45 %
Acute toxicity, inhalation, dust or mist	98.99 %

# Label Elements

#### Hazard Symbol:



Signal Word:

Precautionary

Danger

Hazard Statement:

May cause cancer.

80000051885



Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

# 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Titanium dioxide	13463-67-7	1 - 5%
Stearic acid	57-11-4	0.1 - 1%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause skin and eye irritation.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Symptoms may be delayed.	
5. Fire-fighting measures		



General Fire Hazards:	No unusual fire or explosion hazards noted.			
Suitable (and unsuitable) extinguishing media				
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.			
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.			
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.			
Special protective equipment an	d precautions for firefighters			
Special fire fighting procedures:	No data available.			
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.			
6. Accidental release measure	S			
Personal precautions, protective equipment and emergency procedures:	No data available.			
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.			
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.			
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.			
7. Handling and storage				
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.			
Conditions for safe storage, including any incompatibilities:	Store locked up.			

8. Exposure controls/personal protection



# **Control Parameters**

# **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Amorphous silica	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Titanium dioxide - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Stearic acid - Respirable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Stearic acid - Inhalable fraction.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
	OSHA_AC T	0.025 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	PEL	0.05 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

Chemical name	Туре	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

#### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

# Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.



# 9. Physical and chemical properties

Appearance	
Physical state:	solid
Form:	Paste
Color:	Gray
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.34
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.



Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.	
11. Toxicological information		
Information on likely routes of e Inhalation:	<b>xposure</b> In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
Skin Contact:	Causes mild skin irritation.	
Eye contact:	Eye contact is possible and should be avoided.	
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.	
Symptoms related to the physica	al, chemical and toxicological characteristics	
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Ingestion:	No data available.	
Information on toxicological effe	ects	
Acute toxicity (list all possible	e routes of exposure)	
Oral Product:	ATEmix: 43,457.84 mg/kg	
Dermal Product:	ATEmix: 23,794.15 mg/kg	
Inhalation Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): Amorphous silica	LC 50 (Rat): > 2.08 mg/l	
Titanium dioxide	LC 50 (Rat): 3.43 mg/l	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	



8/14

Specified substance(s): Amorphous silica	in vivo (Rabbit): Not irritant Experimental result, Key study
Titanium dioxide	in vivo (Rabbit): Not irritant Experimental result, Supporting study
Stearic acid	in vivo (Rabbit): Not irritant Experimental result, Key study
Serious Eye Damage/Eye Irritati Product: Specified substance(s):	<b>on</b> No data available.
Amorphous silica	Rabbit, 24 hrs: Not irritating
Titanium dioxide	Rabbit, 24 hrs: Not irritating
Stearic acid	Rabbit, 27 - 72 hrs: Not irritating
Respiratory or Skin Sensitizatio Product:	<b>n</b> No data available.
Carcinogenicity Product:	No data available.
IARC Monographs on the Evaluation	ation of Carcinogenic Risks to Humans:
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.
Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.
	m <b>(NTP) Report on Carcinogens:</b> Known To Be Human Carcinogen.
US. OSHA Specifically Regulate No carcinogenic component	<b>d Substances (29 CFR 1910.1001-1050):</b> s identified
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
800000051885	



Specific Target Organ Toxici	ty - Single Exposure
Product:	No data available.
Specific Target Organ Toxici	ty - Repeated Exposure
Product:	No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

# 12. Ecological information

# **Ecotoxicity:**

Acute hazards to the aquatic environment:		
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Specified substance(s): Titanium dioxide	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication	
Chronic hazards to the aquation	c environment:	
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	



BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (B Product:	<b>3CF)</b> No data available.
Partition Coefficient n-octanol / Product:	water (log Kow) No data available.
Specified substance(s): Stearic acid	Log Kow: 8.23
Mobility in soil:	No data available.
Other adverse effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDG:	

Not Regulated

# CFR / DOT:

Not Regulated

# IMDG:

Not Regulated

# 15. Regulatory information

#### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.



# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

# CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	<b>Reportable quantity</b>
Ethyl alcohol	100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Delayed (Chronic) Health Hazard

# SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Ethyl alcohol	100 lbs.
Copper phthalocyanine	

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	10000 lbs
(Limestone)	
Amorphous silica	10000 lbs
Titanium dioxide	10000 lbs
Stearic acid	10000 lbs
Crystalline Silica (Quartz)/	10000 lbs
Silica Sand	

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

#### **US State Regulations**

# US. California Proposition 65



#### WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

### US. New Jersey Worker and Community Right-to-Know Act

#### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica Titanium dioxide Crystalline Silica (Quartz)/ Silica Sand



# **US. Massachusetts RTK - Substance List**

<u>Chemical Identity</u> Calcium Carbonate (Limestone)

Amorphous silica Titanium dioxide Crystalline Silica (Quartz)/ Silica Sand

# US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Calcium Carbonate (Limestone) Amorphous silica Titanium dioxide

# US. Rhode Island RTK

#### **Chemical Identity**

Calcium Carbonate (Limestone) Titanium dioxide

#### International regulations

#### **Montreal protocol**

Not applicable

# Stockholm convention

Not applicable

# **Rotterdam convention**

Not applicable

# Kyoto protocol

Not applicable

# VOC:

Regulatory VOC (less water and exempt solvent)	:	34 g/l
VOC Method 310	:	2.52 %



Inventory Status: Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	11/30/2018
Version #:	1.1
Further Information:	No data available.



**Disclaimer:** 

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



Version: 1.1 Revision Date: 11/30/2018

# SAFETY DATA SHEET

# 1. Identification

#### Material name: SPECTREM 2 IVORY - 30 CTG Material: 947858 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

# Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

#### Contact person: Telephone: Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

# Hazard Classification

#### Health Hazards

Carcinogenicity

Category 1A

# **Unknown toxicity - Health**

Acute toxicity, oral	49.07 %
Acute toxicity, dermal	51.09 %
Acute toxicity, inhalation, vapor	99.45 %
Acute toxicity, inhalation, dust or mist	99 %

# Label Elements

# Hazard Symbol:



Signal Word:

Precautionary

Danger

Hazard Statement:

May cause cancer.

------



Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

# 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Titanium dioxide	13463-67-7	0.5 - 1.5%
Stearic acid	57-11-4	0.5 - 1.5%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause skin and eye irritation.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Symptoms may be delayed.	
5. Fire-fighting measures		



General Fire Hazards:	No unusual fire or explosion hazards noted.	
Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.	
Special protective equipment an	d precautions for firefighters	
Special fire fighting procedures:	No data available.	
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
6. Accidental release measure	S	
Personal precautions, protective equipment and emergency procedures:	No data available.	
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.	
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.	
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.	
7. Handling and storage		
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.	
Conditions for safe storage, including any incompatibilities:	Store locked up.	

8. Exposure controls/personal protection



#### **Control Parameters**

#### **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Amorphous silica	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Titanium dioxide - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Stearic acid - Respirable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Stearic acid - Inhalable fraction.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
	OSHA_AC T	0.025 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	PEL	0.05 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

Chemical name	Туре	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

#### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

#### Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.	
Eye/face protection:	Wear goggles/face shield.	
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.	
Other:	No data available.	
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.	
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.	



# 9. Physical and chemical properties

Appearance	
Physical state:	solid
Form:	Paste
Color:	Off-white
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.41
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.



Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.	
11. Toxicological information		
Information on likely routes of e Inhalation:	<b>xposure</b> In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
Skin Contact:	Causes mild skin irritation.	
Eye contact:	Eye contact is possible and should be avoided.	
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.	
Symptoms related to the physica	al, chemical and toxicological characteristics	
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Ingestion:	No data available.	
Information on toxicological effe	ects	
Acute toxicity (list all possible	e routes of exposure)	
Oral Product:	ATEmix: 43,413.27 mg/kg	
Dermal Product:	ATEmix: 23,828.11 mg/kg	
Inhalation Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): Amorphous silica	LC 50 (Rat): > 2.08 mg/l	
Titanium dioxide	LC 50 (Rat): 3.43 mg/l	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	



8/14

Specified substance(s): Amorphous silica	in vivo (Rabbit): Not irritant Experimental result, Key study
Titanium dioxide	in vivo (Rabbit): Not irritant Experimental result, Supporting study
Stearic acid	in vivo (Rabbit): Not irritant Experimental result, Key study
Serious Eye Damage/Eye Irritati Product: Specified substance(s):	<b>on</b> No data available.
Amorphous silica	Rabbit, 24 hrs: Not irritating
Titanium dioxide	Rabbit, 24 hrs: Not irritating
Stearic acid	Rabbit, 27 - 72 hrs: Not irritating
Respiratory or Skin Sensitizatio Product:	<b>n</b> No data available.
Carcinogenicity Product:	No data available.
IARC Monographs on the Evaluation	ation of Carcinogenic Risks to Humans:
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.
Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.
	m <b>(NTP) Report on Carcinogens:</b> Known To Be Human Carcinogen.
US. OSHA Specifically Regulate No carcinogenic component	<b>d Substances (29 CFR 1910.1001-1050):</b> s identified
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
800000051887	



Specific Target Organ Toxici	ty - Single Exposure
Product:	No data available.
Specific Target Organ Toxici	ty - Repeated Exposure
Product:	No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

# 12. Ecological information

#### **Ecotoxicity:**

Acute hazards to the aquatic environment:		
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Specified substance(s): Titanium dioxide	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication	
Chronic hazards to the aquation	c environment:	
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	



BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (B Product:	CF) No data available.
Partition Coefficient n-octanol / Product:	water (log Kow) No data available.
Specified substance(s): Stearic acid	Log Kow: 8.23
Mobility in soil:	No data available.
Other adverse effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDG:	

Not Regulated

#### CFR / DOT:

Not Regulated

#### IMDG:

Not Regulated

# 15. Regulatory information

#### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.



## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Ethyl alcohol	100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Delayed (Chronic) Health Hazard

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Ethyl alcohol	100 lbs.
Copper phthalocyanine	

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	10000 lbs
(Limestone)	
Amorphous silica	10000 lbs
Titanium dioxide	10000 lbs
Stearic acid	10000 lbs
Crystalline Silica (Quartz)/	10000 lbs
Silica Sand	

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

#### **US State Regulations**

#### US. California Proposition 65



#### WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

#### US. New Jersey Worker and Community Right-to-Know Act

#### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand



Version: 1.1 Revision Date: 11/30/2018

#### US. Massachusetts RTK - Substance List

<u>Chemical Identity</u> Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand

#### US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Calcium Carbonate (Limestone) Amorphous silica

#### **US. Rhode Island RTK**

#### **Chemical Identity**

Calcium Carbonate (Limestone)

#### International regulations

### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### Rotterdam convention

Not applicable

## Kyoto protocol

Not applicable

#### VOC:

Regulatory VOC (less water and exempt solvent)	:	36 g/l
VOC Method 310	:	2.52 %



Inventory Status: Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	11/30/2018
Version #:	1.1
Further Information:	No data available.



**Disclaimer:** 

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



# SAFETY DATA SHEET

#### 1. Identification

#### Material name: SPECTREM 2 LIMESTONE Material: 947805 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

#### Contact person: Telephone: Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

#### 2. Hazard(s) identification

#### Hazard Classification

#### Health Hazards

Carcinogenicity	Category 2
Toxic to reproduction	Category 2

#### **Unknown toxicity - Health**

Acute toxicity, oral	22.4 %
Acute toxicity, dermal	23.33 %
Acute toxicity, inhalation, vapor	99.91 %
Acute toxicity, inhalation, dust	99.79 %
or mist	

#### Label Elements

Hazard Symbol:



Signal Word:

Warning

Hazard Statement:

Suspected of causing cancer. Suspected of damaging fertility or the unborn child.



Precautionary Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

# 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Calcium carbonate	471-34-1	30 - 60%
Calcium Carbonate (Limestone)	1317-65-3	10 - 30%
Stearic acid	57-11-4	1 - 5%
Titanium dioxide	13463-67-7	0.5 - 1.5%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause skin and eye irritation.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Symptoms may be delayed.	



5. Fire-fighting measures	
General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extingu	uishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measure	S
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.
Conditions for safe storage, including any incompatibilities:	Store locked up.



# 8. Exposure controls/personal protection

#### **Control Parameters**

#### **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
Calcium carbonate - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium carbonate - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Stearic acid - Respirable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Stearic acid - Inhalable fraction.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Titanium dioxide - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)

Chemical name	Туре	Exposure Limit Values	Source
Calcium carbonate - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Stearic acid	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stearic acid	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

#### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

#### Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

#### 9. Physical and chemical properties



#### Appearance

Physical state:	solid			
Form:	Paste			
Color:	Gray			
Odor:	Mild sharp			
Odor threshold:	No data available.			
pH:	No data available.			
Melting point/freezing point:	No data available.			
Initial boiling point and boiling range:	No data available.			
Flash Point:	No data available.			
Evaporation rate:	Slower than Ether			
Flammability (solid, gas):	No			
Upper/lower limit on flammability or explosive limits				
Flammability limit - upper (%):	No data available.			
Flammability limit - lower (%):	No data available.			
Explosive limit - upper (%):	No data available.			
Explosive limit - lower (%):	No data available.			
Vapor pressure:	No data available.			
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.			
Relative density:	1.41			
Solubility(ies)				
Solubility in water:	Practically Insoluble			
Solubility (other):	No data available.			
Partition coefficient (n-octanol/water):	No data available.			
Auto-ignition temperature:	No data available.			
Decomposition temperature:	No data available.			
Viscosity:	No data available.			

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.



11. Toxicological information	
Information on likely routes of ex Inhalation:	<b>xposure</b> In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	May be harmful in contact with skin. Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Symptoms related to the physica	al, chemical and toxicological characteristics
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.
Information on toxicological effe	cts
Acute toxicity (list all possible	routes of exposure)
Oral Product:	ATEmix: 67,208.87 mg/kg
Dermal Product:	ATEmix: 3,950.24 mg/kg
Inhalation Product:	Not classified for acute toxicity based on available data.
Specified substance(s): Titanium dioxide	LC 50 (Rat): 3.43 mg/l
Octamethylcyclotetrasilox ane	LC 50 (Rat): 36 mg/l
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Specified substance(s):	



Calcium carb	onate	in vivo (Rabbit): Not irritant Experimental result, Key study		
Stearic acid		in vivo (Rabbit): Not irritant Experimental result, Key study		
Titanium diox	ide	in vivo (Rabbit): Not irritant Experimental result, Supporting study		
Octamethylcy oxane	/clotetrasil	in vivo (Rabbit): Not irritant Experimental result, Key study		
Serious Eye Damage/Eye Irritation Product: No data available. Specified substance(s):				
Calcium carb	onate	Rabbit, 24 - 72 hrs: Not irritating		
Stearic acid		Rabbit, 27 - 72 hrs: Not irritating		
Titanium diox	ide	Rabbit, 24 hrs: Not irritating		
Respiratory or Skin S Product:	Sensitization	n No data available.		
Carcinogenicity Product:		Suspected of causing cancer.		
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:				
Titanium	dioxide	Overall evaluation: Possibly carcinogenic to humans.		
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified				
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified				
Germ Cell Mutagenic	ity			
In vitro Product:		No data available.		
In vivo Product:		No data available.		
Reproductive toxicity Product:	1	Suspected of damaging fertility or the unborn child.		
Specific Target Organ Product:	n Toxicity -	Single Exposure No data available.		



Specific Target Organ	Toxicity - Repeated Exposure
Product:	No data available.

Aspiration Hazard Product: No data available.

No data available.

Other effects:

# 12. Ecological information

#### **Ecotoxicity:**

Acute hazards to the aquatic environment:			
Fish Product:	No data available.		
Aquatic Invertebrates Product:	No data available.		
<b>Specified substance(s):</b> Titanium dioxide	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication		
Chronic hazards to the aquatic environment:			
Fish Product:	No data available.		
Aquatic Invertebrates Product:	No data available.		
Toxicity to Aquatic Plants Product:	No data available.		
Persistence and Degradability			
Biodegradation Product:	No data available.		
BOD/COD Ratio Product:	No data available.		



Bioaccumulative potential Bioconcentration Factor (BC Product:	<b>F)</b> No data available.		
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): 14,261 (Flow through)		
Partition Coefficient n-octanol / w Product:	<b>vater (log Kow)</b> No data available.		
Specified substance(s): Stearic acid	Log Kow: 8.23		
Mobility in soil:	No data available.		
Other adverse effects:	No data available.		
13. Disposal considerations			
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.		
Contaminated Packaging:	No data available.		
14. Transport information			
TDG:			
Not Regulated			

#### CFR / DOT:

Not Regulated

#### IMDG:

Not Regulated

## 15. Regulatory information

#### **US Federal Regulations**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.



#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	
Cyclohexane	
Methanol	

Reportable quantity 1000 lbs. 5000 lbs.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Delayed (Chronic) Health Hazard

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Methanol	5000 lbs.
Copper phthalocyanine	

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium carbonate	10000 lbs
Calcium Carbonate	10000 lbs
(Limestone)	
Stearic acid	10000 lbs
Titanium dioxide	10000 lbs
Octamethylcyclotetrasiloxane	10000 lbs

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**



#### WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

#### US. New Jersey Worker and Community Right-to-Know Act

#### Chemical Identity

Calcium carbonate Calcium Carbonate (Limestone)



#### **US. Massachusetts RTK - Substance List**

**Chemical Identity** Calcium carbonate Calcium Carbonate (Limestone) Crystalline Silica (Quartz)/ Silica Sand

#### US. Pennsylvania RTK - Hazardous Substances

**Chemical Identity** Calcium carbonate Calcium Carbonate (Limestone)

#### US. Rhode Island RTK

#### **Chemical Identity**

Calcium carbonate Calcium Carbonate (Limestone)

#### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

# Kyoto protocol Not applicable

#### VOC:

Regulatory VOC (less water and	:	30 g/l
exempt solvent)		
VOC Method 310	:	2.11 %



Inventory Status: Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	11/30/2018
Version #:	1.1
Further Information:	No data available.



**Disclaimer:** 

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



# SAFETY DATA SHEET

#### 1. Identification

Material name: SPECTREM 2 LT BRONZE - 30 CTG Material: 947809 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

Contact person:
Telephone:
Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

#### 2. Hazard(s) identification

#### **Hazard Classification**

Health Hazards	
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Carcinogenicity	Category 1A
Toxic to reproduction	Category 2
Unknown toxicity - Health	
Acute toxicity, oral	49.76 %
Acute toxicity, dermal	50.89 %
Acute toxicity, inhalation, vapor	99.41 %
Acute toxicity, inhalation, dust or mist	98.69 %
Unknown toxicity - Environment	
Acute hazards to the aquatic	92.06 %
environment	
Chronic hazards to the aquatic environment	100 %

#### Label Elements

#### Hazard Symbol:



**Signal Word:** 

Danger



Hazard Statement:	Causes skin irritation. Causes serious eye irritation. May cause cancer. Suspected of damaging fertility or the unborn child.
Precautionary Statement:	
Prevention:	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Take off contaminated clothing.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Aminosilane	919-30-2	1 - 5%
Stearic acid	57-11-4	0.5 - 1.5%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.
Inhalation:	Move to fresh air.
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
	2/13



#### Most important symptoms/effects, acute and delayed

Symptoms:	Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.	
Indication of immediate medical a	ttention and special treatment needed	
Treatment:	Symptoms may be delayed.	
5. Fire-fighting measures		
General Fire Hazards:	No unusual fire or explosion hazards noted.	
Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters		
Special fire fighting procedures:	No data available.	
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
6. Accidental release measure	S	
Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.	
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.	
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.	
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.	



# 7. Handling and storage

Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Avoid contact with skin. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.
Conditions for safe storage, including any incompatibilities:	Store locked up.

# 8. Exposure controls/personal protection

#### **Control Parameters**

### Occupational Exposure Limits

Chemical Identity	type	Exposure Limit Values	Source
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total dust.			Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Respirable fraction.			Contaminants (29 CFR 1910.1000) (02 2006)
Amorphous silica	TWA	20 millions	US. OSHA Table Z-3 (29 CFR
		of particles	1910.1000) (2000)
		per cubic foot of air	
	<b>T</b> \A/A	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR
	TWA	0.0 mg/mo	1910.1000) (2000)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica	TWA	0.025	US. ACGIH Threshold Limit Values
(Quartz)/ Silica Sand - Respirable fraction.		mg/m3	(2011)
Crystalline Silica	TWA	2.4	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -		millions of	1910.1000) (2000)
Respirable.		particles	
		per cubic	
		foot of air	
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Crystalline Silica	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand - Total dust.			1910.1000) (2000)

Chemical name	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs.



			(Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Amorphous silica  - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.



#### Individual protection measures, such as personal protective equipment

General information:	Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin.

# 9. Physical and chemical properties

#### Appearance

Physical state:	solid
Form:	Paste
Color:	Bronze colored
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosive	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.34
Solubility(ies)	
	0/10



Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

# 10. Stability and reactivity

No data available.
Material is stable under normal conditions.
No data available.
Avoid heat or contamination.
Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# 11. Toxicological information

#### Information on likely routes of exposure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes skin irritation.
Eye contact:	Causes serious eye irritation.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral Product:	1,780.00 mg/kg ATEmix : 29,031.19 mg/kg
Dermal Product:	ATEmix: 24,033.47 mg/kg
Inhalation Product:	No data available.

Repeated dose toxicity	
Product:	No data available.



Skin Corrosion/Irritation		
Product:	No data available.	
Serious Eye Damage/Eye Irritation Product: No data available.		
Specified substance(s): Amorphous silica	in vivo (Rabbit, 24 hrs): Not irritating	
Aminosilane	in vivo (Rabbit, 24 - 72 hrs): Highly irritating	
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating	
Respiratory or Skin Sensitization Product:	<b>n</b> No data available.	
Carcinogenicity Product:	No data available.	
IARC Monographs on the Evaluation	ation of Carcinogenic Risks to Humans:	
Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.	
	<b>m (NTP) Report on Carcinogens:</b> Known To Be Human Carcinogen.	
US. OSHA Specifically Regulate No carcinogenic com	d Substances (29 CFR 1910.1001-1050): ponents identified	
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
Reproductive toxicity Product:	Suspected of damaging fertility or the unborn child.	
Specific Target Organ Toxicity - Product:	Single Exposure No data available.	
Specific Target Organ Toxicity - Repeated Exposure           Product:         No data available.		



Aspiration Hazard Product:	No data available.	
Other effects:	No data available.	
12. Ecological information		
Ecotoxicity:		
Acute hazards to the aquatic e	environment:	
Fish Product:	No data available.	
Specified substance(s): Octamethylcyclotetrasilox ane	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 14 d): 0 - 0.013 mg/l Mortality	.0085
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquation	c environment:	
Fish Product:	No data available.	
Specified substance(s): Octamethylcyclotetrasilox ane	LC 50 (Oncorhynchus mykiss, 96 h): > 23 µg/l experimental result NOAEL (Oncorhynchus mykiss, 93 d): >= 4.4 µg/l experimental result LC 50 (Oncorhynchus mykiss, 96 h): > 31 µg/l experimental result LC 80 (Oncorhynchus mykiss, 18 d): 23 µg/l experimental result NOAEL (Oncorhynchus mykiss, 18 d): < 23 µg/l experimental result	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative Potential Bioconcentration Factor (BC Product:	<b>F)</b> No data available.	9/13



Specified substance(s): Octamethylcyclotetrasilox ane	Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): 3,800 - 4,200 (Flow through)
Partition Coefficient n-octan Product:	nol / water (log Kow) No data available.
Specified substance(s): Stearic acid	Log Kow: 8.23
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	

#### TDG:

Not Regulated

#### CFR / DOT:

Not Regulated

#### IMDG:

Not Regulated

#### 15. Regulatory information

#### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.



## CERCLA Hazardous Substance List (40 CFR 302.4):

<b>Chemical Identity</b>
Cyclohexane
Ethyl alcohol
Acetic acid

Reportable quantity 1000 lbs. 100 lbs. 5000 lbs.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

### Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

## SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Ethyl alcohol	100 lbs.
Acetic acid	5000 lbs.

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	500 lbs
(Limestone)	
Amorphous silica	500 lbs
Aminosilane	500 lbs
Stearic acid	500 lbs
Octamethylcyclotetrasiloxa	500 lbs
ne	
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

### **US State Regulations**

### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

## US. New Jersey Worker and Community Right-to-Know Act

#### Chemical Identity

Calcium Carbonate (Limestone) Amorphous silica



US. Massachusetts RTK - Substand <u>Chemical Identity</u> Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sal US. Pennsylvania RTK - Hazardous <u>Chemical Identity</u> Calcium Carbonate (Limestone) Amorphous silica US. Rhode Island RTK No ingredient regulated by R	nd
Other Regulations:	
Regulatory VOC (less water and exempt solvent):	34 g/l
VOC Method 310:	2.56 %
Inventory Status: Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
Canada DSL Inventory List:	One or more components in this product are not listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
US TSCA Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.



Japan Pharmacopoeia Listing:

Japan ISHL Listing:

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

## 16.Other information, including date of preparation or last revision

Revision Date:	08/14/2015
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



## **SAFETY DATA SHEET**

## 1. Identification

## Material name: SPECTREM 2 OFF-WHITE Material: 947803 502

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

## Contact person: Telephone: Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

### **Hazard Classification**

Health Hazards	
Carcinogenicity	Category 2
Toxic to reproduction	Category 2

#### **Unknown toxicity - Health**

Acute toxicity, oral	56.61 %
Acute toxicity, dermal	57.54 %
Acute toxicity, inhalation, vapor	99.92 %
Acute toxicity, inhalation, dust or mist	99.79 %
Unknown toxicity - Environment	
Acute hazards to the aquatic	92.87 %

Acute hazards to the aquatic	92.87 9
environment	
Chronic hazards to the aquatic	100 %

### Label Elements

Hazard Symbol:

environment



Signal Word:

Warning

Hazard Statement:

Suspected of causing cancer. Suspected of damaging fertility or the unborn child.



Precautionary Statement:	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

## 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Calcium carbonate	471-34-1	30 - 60%
Calcium Carbonate (Limestone)	1317-65-3	10 - 30%
Stearic acid	57-11-4	1 - 5%
Titanium dioxide	13463-67-7	0.5 - 1.5%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause skin and eye irritation.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Symptoms may be delayed.	
5. Fire-fighting measures		



General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) e	xtinguishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measure	S
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.
Conditions for safe storage, including any incompatibilities:	Store locked up.

## 8. Exposure controls/personal protection



## **Control Parameters**

## **Occupational Exposure Limits**

Chemical Identity	type	Exposure Limit Values	Source
Calcium carbonate -	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
Total dust.			Contaminants (29 CFR 1910.1000) (02 2006)
Calcium carbonate -	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
Respirable fraction.			Contaminants (29 CFR 1910.1000)
			(02 2006)
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total			Contaminants (29 CFR 1910.1000)
dust.			(02 2006)
Calcium Carbonate	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) -			Contaminants (29 CFR 1910.1000)
Respirable fraction.			(02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
			(2011)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
			(2011)
Titanium dioxide - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			Contaminants (29 CFR 1910.1000)
			(02 2006)

Chemical name	type	Exposure Limit Values	Source
Calcium carbonate - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Stearic acid	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stearic acid	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

#### Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.	
Eye/face protection:	Wear goggles/face shield.	
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.	
Other:	No data available.	
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.	



Hygiene measures:

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

## 9. Physical and chemical properties

Appearance	
Physical state:	solid
Form:	Paste
Color:	Off-white
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.42
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

## 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.



Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.	
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.	
11. Toxicological information		
Information on likely routes of e	exposure May be ingested by accident. Ingestion may cause irritation and malaise	

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

Oral Product:	1,780.00 mg/kg ATEmix : 37,538.3 mg/kg
Dermal Product:	ATEmix: 18,465.96 mg/kg
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Specified substance(s): Calcium carbonate	in vivo (Rabbit): Experimental result, Key study
Stearic acid	in vivo (Rabbit): Experimental result, Key study
Titanium dioxide	in vivo (Rabbit): Experimental result, Supporting study



Octamethylcyclotetrasil oxane	in vivo (Rabbit): Experimental result, Key study
Serious Eye Damage/Eye Irritati Product:	on No data available.
Specified substance(s): Calcium carbonate	in vivo (Rabbit, 24 - 72 hrs): Not irritating
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating
Titanium dioxide	in vivo (Rabbit, 24 hrs): Not irritating
Respiratory or Skin Sensitizatio Product:	<b>n</b> No data available.
Carcinogenicity Product:	Suspected of causing cancer.
IARC Monographs on the Evaluation	ation of Carcinogenic Risks to Humans:
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.
US. National Toxicology Program	m (NTP) Report on Carcinogens:
No carcinogenic com	ponents identified d Substances (29 CFR 1910.1001-1050):
No carcinogenic com US. OSHA Specifically Regulate	ponents identified d Substances (29 CFR 1910.1001-1050):
No carcinogenic com US. OSHA Specifically Regulate No carcinogenic com	ponents identified d Substances (29 CFR 1910.1001-1050):
No carcinogenic com US. OSHA Specifically Regulate No carcinogenic com Germ Cell Mutagenicity In vitro	ponents identified d Substances (29 CFR 1910.1001-1050): ponents identified
No carcinogenic com US. OSHA Specifically Regulate No carcinogenic com Germ Cell Mutagenicity In vitro Product: In vivo	ponents identified d Substances (29 CFR 1910.1001-1050): ponents identified No data available.
No carcinogenic com US. OSHA Specifically Regulate No carcinogenic com Germ Cell Mutagenicity In vitro Product: In vivo Product: Reproductive toxicity	ponents identified <b>d Substances (29 CFR 1910.1001-1050):</b> ponents identified No data available. No data available. Suspected of damaging fertility or the unborn child.
No carcinogenic com US. OSHA Specifically Regulate No carcinogenic com Germ Cell Mutagenicity In vitro Product: In vivo Product: Reproductive toxicity Product: Specific Target Organ Toxicity -	<pre>ponents identified d Substances (29 CFR 1910.1001-1050): ponents identified No data available. No data available. Suspected of damaging fertility or the unborn child. Single Exposure No data available.</pre>



Other effects:

No data available.

## 12. Ecological information

## **Ecotoxicity:**

## Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 14 d): 0.0085 - 0.013 mg/l Mortality
Aquatic Invertebrates Product:	No data available.
Chronic hazards to the aquatic	environment:
Fish Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	LC 50 (Oncorhynchus mykiss, 28 d): 7.31 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study
Octamethylcyclotetrasilox ane	NOAEL (Oncorhynchus mykiss, 93 d): >= 4.4 µg/l Experimental result, Key study LC 50 (Oncorhynchus mykiss, 96 h): > 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): < 23 µg/l Experimental result, Supporting study LC 80 (Oncorhynchus mykiss, 18 d): 23 µg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 18 d): >= 31 µg/l Experimental result, Supporting study
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.



Bioaccumulative Potential Bioconcentration Factor (BC Product:	CF) No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): 3,800 - 4,200 (Flow through)
Partition Coefficient n-octan Product:	nol / water (log Kow) No data available.
Specified substance(s): Stearic acid	Log Kow: 8.23
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDG:	

Not Regulated

## CFR / DOT:

Not Regulated

## IMDG:

Not Regulated

## 15. Regulatory information

## **US Federal Regulations**

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.



## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

## CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	<b>Reportable quantity</b>
Cyclohexane	1000 lbs.
Toluene	1000 lbs.
Methanol	5000 lbs.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Delayed (Chronic) Health Hazard

### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Toluene	1000 lbs.
Methanol	5000 lbs.

## SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium carbonate	500 lbs
Calcium Carbonate	500 lbs
(Limestone)	
Stearic acid	500 lbs
Titanium dioxide	500 lbs
Octamethylcyclotetrasiloxa	500 lbs
ne	

### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

### **US State Regulations**

## **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

## US. New Jersey Worker and Community Right-to-Know Act

## **Chemical Identity**

Calcium carbonate Calcium Carbonate (Limestone)



## US. Massachusetts RTK - Substance List

<u>Chemical Identity</u> Calcium carbonate Calcium Carbonate (Limestone) Crystalline Silica (Quartz)/ Silica Sand

## US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Calcium carbonate Calcium Carbonate (Limestone)

## US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

## **Other Regulations:**

Regulatory VOC (less water	30 g/l
and exempt solvent):	
VOC Method 310:	2.11 %

## **Inventory Status:**

Australia AICS:

EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory:

Philippines PICCS:

New Zealand Inventory of Chemicals:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

One or more components in this product are

One or more components in this product are not listed on or exempt from the Inventory.

not listed on or exempt from the Inventory.

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One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.



Canada DSL Inventory List:

US TSCA Inventory:

All components in this product are listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

## 16.Other information, including date of preparation or last revision

Revision Date:	08/15/2016
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



# SAFETY DATA SHEET

## 1. Identification

Material name: SPECTREM 2 PRECAST WHITE Material: 947811 502

## Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

Contact person:
Telephone:
Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

### **Hazard Classification**

Hoalth	Hazards
пеаки	nazarus

Carcinogenicity	Category 1A
Inknown toxicity - Health	
Acute toxicity, oral	50.49 %
Acute toxicity, dermal	51.58 %
Acute toxicity, inhalation, vapor	99.47 %
Acute toxicity, inhalation, dust or mist	99.99 %
nknown toxicity - Environment	
Acute hazards to the aquatic environment	90.92 %
Chronic hazards to the aquatic environment	100 %

### Label Elements

U

U

Hazard Symbol:



Signal Word:

Danger

**Hazard Statement:** 

May cause cancer.

Precautionary Statement:



Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Titanium dioxide	13463-67-7	0.5 - 1.5%
Stearic acid	57-11-4	0.5 - 1.5%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause skin and eye irritation.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Symptoms may be delayed.	
5. Fire-fighting measures		
General Fire Hazards:	No unusual fire or explosion hazards noted.	



## Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment and	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measures	5
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.
Conditions for safe storage, including any incompatibilities:	Store locked up.

## 8. Exposure controls/personal protection

## Control Parameters Occupational Exposure Limits



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Chemical Identity	type	Exposure Limit Values	Source
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total			Contaminants (29 CFR 1910.1000)
dust. Calcium Carbonate	PEL	5 mg/m3	(02 2006) US. OSHA Table Z-1 Limits for Air
(Limestone) -	FEL	5 119/113	Contaminants (29 CFR 1910.1000)
Respirable fraction.			(02 2006)
Amorphous silica	TWA	20 millions	US. OSHA Table Z-3 (29 CFR
		of particles	1910.1000) (2000)
		per cubic	
		foot of air	
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR
Titanium dioxide	TWA	10 m a/m 2	1910.1000) (2000) US. ACGIH Threshold Limit Values
ritanium dioxide	IVVA	10 mg/m3	(2011)
Titanium dioxide - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			Contaminants (29 CFR 1910.1000)
			(02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
		0.005	(2011)
Crystalline Silica	TWA	0.025	US. ACGIH Threshold Limit Values
(Quartz)/ Silica Sand - Respirable fraction.		mg/m3	(2011)
Crystalline Silica	TWA	2.4	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -		millions of	1910.1000) (2000)
Respirable.		particles	
-		per cubic	
		foot of air	
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR
			1910.1000) (2000)
Crystalline Silica	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand - Total dust.			1910.1000) (2000)
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Chemical name	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)



Appropriate Engineering Controls	Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.
Individual protection measures, s	such as personal protective equipment
General information:	Use personal protective equipment as required.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

## Appearance

Physical state:	solid	
Form:	Paste	
Color:	White	
Odor:	Mild sharp	
Odor threshold:	No data available.	
pH:	No data available.	
Melting point/freezing point:	No data available.	
Initial boiling point and boiling range:	No data available.	
Flash Point:	No data available.	
Evaporation rate:	Slower than Ether	
Flammability (solid, gas):	No	
Upper/lower limit on flammability or explosive limits		
Flammability limit - upper (%):	No data available.	
Flammability limit - lower (%):	No data available.	
Explosive limit - upper (%):	No data available.	
Explosive limit - lower (%):	No data available.	
Vapor pressure:	No data available.	
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.	
Relative density:	1.34	
Solubility(ies)		
Solubility in water:	Practically Insoluble	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/water):	No data available.	
Auto-ignition temperature:	No data available.	
Decomposition temperature:	No data available.	



Viscosity:	No data available.
10. Stability and reactivity	
Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
11. Toxicological information	n

### Information on likely routes of exposure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 60,414.02 mg/kg
Dermal Product:	ATEmix: 44,595.07 mg/kg
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.

## Serious Eye Damage/Eye Irritation



Product:	No data available.		
Specified substance(s): Amorphous silica	in vivo (Rabbit, 24 hrs): Not irritating		
Titanium dioxide	in vivo (Rabbit, 24 - 72 hrs): Not irritating		
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating		
Respiratory or Skin Sensitization Product:	n No data available.		
Carcinogenicity Product:	No data available.		
IARC Monographs on the Evaluation	ation of Carcinogenic Risks to Humans:		
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.		
Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.		
US. National Toxicology Program (NTP) Report on Carcinogens: Crystalline Silica Known To Be Human Carcinogen. (Quartz)/ Silica Sand			
No carcinogenic com	d Substances (29 CFR 1910.1001-1050): ponents identified		
Germ Cell Mutagenicity			
In vitro Product:	No data available.		
In vivo Product:	No data available.		
Reproductive toxicity Product:	No data available.		
Specific Target Organ Toxicity - Single ExposureProduct:No data available.			
Specific Target Organ Toxicity - Repeated Exposure           Product:         No data available.			
Aspiration Hazard Product:	No data available.		



Other effects:

No data available.

## 12. Ecological information

## Ecotoxicity:

## Acute hazards to the aquatic environment:

Fish Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality
Aquatic Invertebrates Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication
Chronic hazards to the aquatic	environment:
Fish Product:	No data available.
<b>Specified substance(s):</b> Titanium dioxide	LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l experimental result
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative Potential Bioconcentration Factor (BC Product:	<b>F)</b> No data available.
Partition Coefficient n-octand Product:	ol / water (log Kow) No data available.



Specified substance(s): Stearic acid	Log Kow: 8.23
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDG:	
Not Regulated	
CFR / DOT:	
Not Regulated	
IMDG:	

Not Regulated

## 15. Regulatory information

## **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

## CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Methanol	5000 lbs.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories Delayed (Chronic) Health Hazard

### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



## SARA 304 Emergency Release Notification

Chemical IdentityReportable quantityMethanol5000 lbs.Copper phthalocyanine

## SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	500 lbs
(Limestone)	
Amorphous silica	500 lbs
Titanium dioxide	500 lbs
Stearic acid	500 lbs
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

## **US State Regulations**

## **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

## US. New Jersey Worker and Community Right-to-Know Act

### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica

## **US. Massachusetts RTK - Substance List**

### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand

## US. Pennsylvania RTK - Hazardous Substances

## **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica

### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

## Other Regulations:

Regulatory VOC (less water	8 g/l
and exempt solvent):	
VOC Method 310:	0.61 %

## **Inventory Status:**



Australia AICS:	All components in this product are listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	All components in this product are listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	All components in this product are listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.

## 16.Other information, including date of preparation or last revision

Revision Date:	08/14/2015
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.





# SAFETY DATA SHEET

## 1. Identification

Material name: SPECTREM 2 RUSTIC BRICK - 30 CTG Material: 947877 502

## Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

Contact person:
Telephone:
Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

## **Hazard Classification**

Health	n Haza	ards

Carcinogenicity	Category 1A
Unknown toxicity - Health	
Acute toxicity, oral	50.35 %
Acute toxicity, dermal	51.8 %
Acute toxicity, inhalation, vapor	99.47 %
Acute toxicity, inhalation, dust or mist	100 %
Unknown toxicity - Environment	
Acute hazards to the aquatic	91.97 %
environment	
Chronic hazards to the aquatic environment	100 %

### Label Elements

Hazard Symbol:



Signal Word:

Danger

**Hazard Statement:** 

May cause cancer.

Precautionary Statement:



Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Iron oxide	1309-37-1	0.5 - 1.5%
Stearic acid	57-11-4	0.5 - 1.5%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.		
Inhalation:	Move to fresh air.		
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.		
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.		
Most important symptoms/effects, acute and delayed			
Symptoms:	May cause skin and eye irritation.		
Indication of immediate medical attention and special treatment needed			
Treatment:	Symptoms may be delayed.		
5. Fire-fighting measures			
General Fire Hazards:	No unusual fire or explosion hazards noted.		



## Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment and	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measures	5
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.
Conditions for safe storage, including any incompatibilities:	Store locked up.

## 8. Exposure controls/personal protection

## Control Parameters Occupational Exposure Limits



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Chemical Identity	type	Exposure Limit Values	Source
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total			Contaminants (29 CFR 1910.1000)
dust. Calcium Carbonate	PEL	5 mg/m3	(02 2006) US. OSHA Table Z-1 Limits for Air
(Limestone) -		5 mg/m3	Contaminants (29 CFR 1910.1000)
Respirable fraction.			(02 2006)
Amorphous silica	TWA	20 millions	US. OSHA Table Z-3 (29 CFR
		of particles	1910.1000) (2000)
		per cubic	
		foot of air	
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Iron oxide - Respirable	TWA	5 mg/m3	US. ACGIH Threshold Limit Values
fraction.		cg,c	(2011)
Iron oxide - Fume.	PEL	10 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000)
			(02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica	TWA	0.025	US. ACGIH Threshold Limit Values
(Quartz)/ Silica Sand -		mg/m3	(2011)
Respirable fraction.			()
Crystalline Silica	TWA	2.4	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -		millions of	1910.1000) (2000)
Respirable.		particles	
		per cubic	
		foot of air	
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Crystalline Silica	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -	1 4 4 7 3	0.0 mg/m0	1910.1000) (2000)
Total dust.			

Chemical name	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

Appropriate Engineering<br/>ControlsMechanical ventilation or local exhaust ventilation may be required.<br/>Observe good industrial hygiene practices. Observe occupational exposure<br/>limits and minimize the risk of inhalation of dust.

## Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	No data available.



Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

## Appearance

••	
Physical state:	solid
Form:	Paste
Color:	Red brown
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explo	sive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.34
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

## 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Avoid heat or contamination.



Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
11. Toxicological information	

## Information on likely routes of exposure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 61,165.71 mg/kg
Dermal Product:	ATEmix: 44,812.24 mg/kg
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irritatio Product:	on No data available.
Specified substance(s): Amorphous silica	in vivo (Rabbit, 24 hrs): Not irritating
Iron oxide	in vivo (Rabbit, 1 - 72 hrs): Not irritating
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating
Respiratory or Skin Sensitization Product:	<b>1</b> No data available.

## Carcinogenicity



Product:	No data available.
IARC Monographs on the Ev	valuation of Carcinogenic Risks to Humans:
Crystalline Silica (Quartz)/ Silica Sand	a Overall evaluation: Carcinogenic to humans.
Crystalline S	o <b>gram (NTP) Report on Carcinogens:</b> ilica Known To Be Human Carcinogen. ilica
	ulated Substances (29 CFR 1910.1001-1050): components identified
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxic Product:	city - Single Exposure No data available.
Specific Target Organ Toxic Product:	city - Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

# 12. Ecological information

# Ecotoxicity:

# Acute hazards to the aquatic environment:

Fish Product:

No data available.

# Aquatic Invertebrates



Product:	No data available.
Chronic hazards to the aquation	c environment:
Fish Product:	No data available.
Specified substance(s): Iron oxide	LOAEL (Pimephales promelas, 33 d): 1.6 mg/l experimental result
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative Potential Bioconcentration Factor (BC Product:	<b>CF)</b> No data available.
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.
Specified substance(s): Stearic acid	Log Kow: 8.23
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	

# TDG:

Not Regulated



# CFR / DOT:

Not Regulated

IMDG:

Not Regulated

# 15. Regulatory information

## **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	
None present or none present in regulated quantities.	

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

## CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity	
Methanol	5000 lbs.	

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Delayed (Chronic) Health Hazard

# SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity	
Methanol	5000 lbs.	

# SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	500 lbs
(Limestone)	
Amorphous silica	500 lbs
Iron oxide	500 lbs
Stearic acid	500 lbs
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.



### **US State Regulations**

### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

## US. New Jersey Worker and Community Right-to-Know Act

<u>Chemical Identity</u> Calcium Carbonate (Limestone) Amorphous silica

### **US. Massachusetts RTK - Substance List**

## **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand

### US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Calcium Carbonate (Limestone) Amorphous silica

### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

### **Other Regulations:**

Regulatory VOC (less water	8 g/l	
and exempt solvent): VOC Method 310:	0.61 %	
Inventory Status: Australia AICS:		All components in this product are listed on or exempt from the Inventory.
Canada DSL Inventory List:		All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:		One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:		One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	:	All components in this product are listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):		All components in this product are listed on or exempt from the Inventory.
Canada NDSL Inventory:		One or more components in this product are not listed on or exempt from the Inventory.



Philippines PICCS:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	08/14/2015
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



# SAFETY DATA SHEET

# 1. Identification

Material name: SPECTREM 2 SANDSTONE - 30 CTG Material: 947881 502

### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

Contact person:
Telephone:
Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

### **Hazard Classification**

Health	n Haza	ards

Carcinogenicity	Category 1A
Unknown toxicity - Health	
Acute toxicity, oral	50.58 %
Acute toxicity, dermal	51.51 %
Acute toxicity, inhalation, vapor	99.47 %
Acute toxicity, inhalation, dust or mist	99.99 %
Unknown toxicity - Environment	
Acute hazards to the aquatic environment	91.18 %
Chronic hazards to the aquatic environment	100 %

### Label Elements

Hazard Symbol:



Signal Word:

Danger

**Hazard Statement:** 

May cause cancer.

Precautionary Statement:



Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	40 - 70%
Amorphous silica	7631-86-9	3 - 7%
Titanium dioxide	13463-67-7	0.5 - 1.5%
Stearic acid	57-11-4	0.5 - 1.5%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause skin and eye irritation.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Symptoms may be delayed.	
5. Fire-fighting measures		
General Fire Hazards:	No unusual fire or explosion hazards noted.	



# Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment and	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measures	5
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.
Conditions for safe storage, including any incompatibilities:	Store locked up.

# 8. Exposure controls/personal protection

# Control Parameters Occupational Exposure Limits



			_
Chemical Identity	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Amorphous silica	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Stearic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Crystalline Silica (Quartz)/ Silica Sand - Total dust.	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

Chemical name	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)



Appropriate Engineering Controls	Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.	
Individual protection measures, s	such as personal protective equipment	
General information:	Use personal protective equipment as required.	
Eye/face protection:	Wear goggles/face shield.	
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.	
Other:	No data available.	
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.	
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.	

# 9. Physical and chemical properties

# Appearance

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Physical state:	solid
Form:	Paste
Color:	Gray
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.34
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.



Viscosity:	No data available.
10. Stability and reactivity	
Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
11. Toxicological information	n

### Information on likely routes of exposure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.

# Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 60,219.93 mg/kg
Dermal Product:	ATEmix: 44,593.49 mg/kg
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.

# Serious Eye Damage/Eye Irritation



Product:	No data available.	
Specified substance(s): Amorphous silica	in vivo (Rabbit, 24 hrs): Not irritating	
Titanium dioxide	in vivo (Rabbit, 24 - 72 hrs): Not irritating	
Stearic acid	in vivo (Rabbit, 27 - 72 hrs): Not irritating	
Respiratory or Skin Sensitization Product:	n No data available.	
Carcinogenicity Product:	No data available.	
IARC Monographs on the Evaluation	ation of Carcinogenic Risks to Humans:	
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.	
Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.	
US. National Toxicology Program (NTP) Report on Carcinogens: Crystalline Silica Known To Be Human Carcinogen. (Quartz)/ Silica Sand		
No carcinogenic com	d Substances (29 CFR 1910.1001-1050): ponents identified	
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
Reproductive toxicity Product:	No data available.	
Specific Target Organ Toxicity - Single Exposure Product:No data available.		
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.	
Aspiration Hazard Product:	No data available.	



Other effects:

No data available.

# 12. Ecological information

# Ecotoxicity:

# Acute hazards to the aquatic environment:

Fish Product:	No data available.	
<b>Specified substance(s):</b> Titanium dioxide	LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality	
Aquatic Invertebrates Product:	No data available.	
<b>Specified substance(s):</b> Titanium dioxide	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication	
Chronic hazards to the aquatic	environment:	
Fish Product:	No data available.	
<b>Specified substance(s):</b> Titanium dioxide	LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l experimental result	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative Potential Bioconcentration Factor (BC Product:	<b>F)</b> No data available.	
Partition Coefficient n-octand Product:	ol / water (log Kow) No data available.	



Specified substance(s): Stearic acid	Log Kow: 8.23	
Mobility in Soil:	No data available.	
Other Adverse Effects:	No data available.	
13. Disposal considerations		
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.	
Contaminated Packaging:	No data available.	
14. Transport information		
TDG:		
Not Regulated		
CFR / DOT:		
Not Regulated		
IMDG:		

Not Regulated

# 15. Regulatory information

### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Methanol	5000 lbs.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### Hazard categories Delayed (Chronic) Health Hazard

### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



SARA 304 Emergency Release Notification	
Chemical Identity Reportable qu	
Methanol	5000 lbs.

### SARA 311/312 Hazardous Chemical

Chemical IdentityThreshold Planning QuantityCalcium Carbonate500 lbs(Limestone)500 lbsAmorphous silica500 lbsTitanium dioxide500 lbsStearic acid500 lbsCrystalline Silica (Quartz)/500 lbsSilica Sand500 lbs

### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

# **US State Regulations**

### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

### US. New Jersey Worker and Community Right-to-Know Act

### **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica

### US. Massachusetts RTK - Substance List

# **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica Crystalline Silica (Quartz)/ Silica Sand

### US. Pennsylvania RTK - Hazardous Substances

## **Chemical Identity**

Calcium Carbonate (Limestone) Amorphous silica

### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

# **Other Regulations:**

Regulatory VOC (less water	8 g/l	
and exempt solvent):		
VOC Method 310:	0.61 %	

All components in this product are listed on or



exempt from the Inventory.

	exempt from the inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	All components in this product are listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	All components in this product are listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	08/14/2015
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.





Version: 1.2 Revision Date: 11/30/2018

# SAFETY DATA SHEET

## 1. Identification

### Material name: SPECTREM 2 WHITE Material: 947806 502

### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

## Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Beachwood OH 44122 US

### Contact person: Telephone: Emergency telephone number:

EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

# Hazard Classification

### Health Hazards

Carcinogenicity	Category 2
Toxic to reproduction	Category 2

### **Unknown toxicity - Health**

Acute toxicity, oral	21.41 %
Acute toxicity, dermal	24.25 %
Acute toxicity, inhalation, vapor	99.95 %
Acute toxicity, inhalation, dust	99.68 %
or mist	

## Label Elements

Hazard Symbol:



Signal Word:

Warning

Hazard Statement:

Suspected of causing cancer. Suspected of damaging fertility or the unborn child.



Precautionary Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Calcium carbonate	471-34-1	30 - 60%
Calcium Carbonate (Limestone)	1317-65-3	10 - 30%
Titanium dioxide	13463-67-7	1 - 5%
Stearic acid	57-11-4	1 - 5%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%
Aluminum oxide	1344-28-1	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
Inhalation:	Move to fresh air.
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.
Most important symptoms/effects, acute and delayed	

Symptoms: May cause skin and eye irritation.

## Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.



5. Fire-fighting measures	
	Ne un contra de contra de contra de
General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extingu	uishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measure	S
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.
Conditions for safe storage, including any incompatibilities:	Store locked up.



# 8. Exposure controls/personal protection

# **Control Parameters**

### **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
Calcium carbonate - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.		- /	Contaminants (29 CFR 1910.1000) (02 2006)
Calcium carbonate - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total dust.		-	Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Respirable	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
fraction.			
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Titanium dioxide - Respirable	TWA	15 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000) (03
fraction.		particles per	2016)
		cubic foot of	,
		air	
Titanium dioxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust.	TWA	50 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000) (03
		particles per	2016)
		cubic foot of	,
		air	
Stearic acid - Respirable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Stearic acid - Inhalable fraction.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (03 2017)
Aluminum oxide - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2011)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
		<b>J</b>	Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum oxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
		5	Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	50 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000) (03
		particles per	2016)
		cubic foot of	,
		air	
Aluminum oxide - Respirable	TWA	15 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000) (03
fraction.		particles per	2016)
		cubic foot of	
		air	
	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum oxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03
		3	2016)



Chemical name	Туре	Exposure Limit Values	Source
Calcium carbonate - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Stearic acid	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stearic acid	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)

Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.



## Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

# 9. Physical and chemical properties

Appearance	
Physical state:	solid
Form:	Paste
Color:	White
Odor:	Mild sharp
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.43
Solubility(ies)	
Solubility in water:	Practically Insoluble



Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	May be harmful in contact with skin. Causes mild skin irritation.
Eye contact:	Eye contact is possible and should be avoided.
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.

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### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

# Oral

Product: ATEmix: 31,529.42 mg/kg



Dermal Product:	ATEmix: 3,955.98 mg/kg	
Inhalation Product:	Not classified for acute toxicity based on available data.	
<b>Specified substance(s):</b> Titanium dioxide	LC 50 (Rat): 3.43 mg/l	
Octamethylcyclotetrasilox ane	LC 50 (Rat): 36 mg/l	
Aluminum oxide	LC 50 (Rat): 7.6 mg/l	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	
Specified substance(s): Calcium carbonate	in vivo (Rabbit): Not irritant Experimental result, Key study	
Titanium dioxide	in vivo (Rabbit): Not irritant Experimental result, Supporting study	
Stearic acid	in vivo (Rabbit): Not irritant Experimental result, Key study	
Octamethylcyclotetrasil oxane	in vivo (Rabbit): Not irritant Experimental result, Key study	
Aluminum oxide	in vivo (Rabbit): Not irritant Experimental result, Key study	
Serious Eye Damage/Eye Irritati Product: Specified substance(s):	<b>on</b> No data available.	
Calcium carbonate	Rabbit, 24 - 72 hrs: Not irritating	
Titanium dioxide	Rabbit, 24 hrs: Not irritating	
Stearic acid	Rabbit, 27 - 72 hrs: Not irritating	
Aluminum oxide	Rabbit, 24 hrs: Not irritating	
Respiratory or Skin Sensitizatio	n Na data availabla	



Carcinogenicity Product:	Suspected of causing cancer.	
IARC Monographs on the Evalu	ation of Carcinogenic Risks to Humans:	
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.	
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified		
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified		
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
<b>5</b>		
Reproductive toxicity Product:	Suspected of damaging fertility or the unborn child.	
Specific Target Organ Toxicity - Single Exposure		
Product:	No data available.	
Specific Target Organ Toxicity - Repeated Exposure Product: No data available.		
Floudel.	No data available.	
Aspiration Hazard		
Product:	No data available.	
Other effects:	No data available.	

# 12. Ecological information

# Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:

No data available.



Aquatic Invertebrates Product:	No data available.	
<b>Specified substance(s):</b> Titanium dioxide	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication	
Chronic hazards to the aquation	environment:	
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (BCF) Product: No data available.		
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF): 14,261 (Flow through)	
Partition Coefficient n-octanol / w Product:	v <b>ater (log Kow)</b> No data available.	
Specified substance(s): Stearic acid	Log Kow: 8.23	
Mobility in soil:	No data available.	
Other adverse effects:	No data available.	
13. Disposal considerations		



Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.	
Contaminated Packaging:	No data available.	
14. Transport information		

### TDG:

Not Regulated

### CFR / DOT:

Not Regulated

### IMDG:

Not Regulated

### 15. Regulatory information

### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Methanol	5000 lbs.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities.

### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Cyclohexane	1000 lbs.
Methanol	5000 lbs.



# SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium carbonate	10000 lbs
Calcium Carbonate	10000 lbs
(Limestone)	
Titanium dioxide	10000 lbs
Stearic acid	10000 lbs
Octamethylcyclotetrasiloxane	10000 lbs
Aluminum oxide	10000 lbs

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

# Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

# **US State Regulations**

### US. California Proposition 65



## WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

## US. New Jersey Worker and Community Right-to-Know Act

## **Chemical Identity**

Calcium carbonate Calcium Carbonate (Limestone) Titanium dioxide

# **US. Massachusetts RTK - Substance List**

### **Chemical Identity**

Calcium carbonate Calcium Carbonate (Limestone) Titanium dioxide Crystalline Silica (Quartz)/ Silica Sand

## US. Pennsylvania RTK - Hazardous Substances

### **Chemical Identity**

Calcium carbonate Calcium Carbonate (Limestone) Titanium dioxide

## US. Rhode Island RTK

## **Chemical Identity**

Calcium carbonate Calcium Carbonate (Limestone) Titanium dioxide

### International regulations



# **Montreal protocol**

Not applicable

# Stockholm convention

Not applicable

# Rotterdam convention Not applicable

Kyoto protocol Not applicable

# VOC:

Regulatory VOC (less water and exempt solvent)	:	30 g/l
VOC Method 310	:	2.08 %



Inventory Status: Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	11/30/2018
Version #:	1.2
Further Information:	No data available.



**Disclaimer:** 

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.