

Version: 1.0 Revision Date: 10/30/2015

# SAFETY DATA SHEET

#### 1. Identification

Material name: TREMFLEX 834 LIMESTONE Material: 9418054323

#### 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 sensitizer	Category 1
Carcinogenicity	Category 1A
Unknown toxicity - Health	
Acute toxicity, oral	71.12 %
Acute toxicity, dermal	71.55 %
Acute toxicity, inhalation, vapor	100 %
Acute toxicity, inhalation, dust or mist	91.22 %
Environmental Hazards	
Acute hazards to the aquatic environment	Category 3
Unknown toxicity - Environment	
Acute hazards to the aquatic environment	98.64 %
Chronic hazards to the aquatic environment	100 %
Label Elements	

#### Hazard Symbol:



Signal Word:

Danger



Hazard Statement:	May cause an allergic skin reaction. May cause cancer. Harmful to aquatic life.
Precautionary Statement: Prevention:	Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. 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 ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Wash contaminated clothing before reuse.
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%
White mineral oil	8042-47-5	3 - 7%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%
Amorphous silica	7631-86-9	0.1 - 1%
Ammonium hydroxide	1336-21-6	0.1 - 1%
Chlorothalonil	1897-45-6	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:	If skin irritation occurs: Get medical advice/attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical 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	s, acute and delayed
Symptoms:	May cause skin and eye irritation.
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) 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:	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:	Avoid release to the environment. 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, skin, and clothing. Wash hands thoroughly after 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.
Conditions for safe storage, including any incompatibilities:	Store locked up.

## 8. Exposure controls/personal protection

#### **Control Parameters**

## Occupational Exposure Limits

Chemical Identity	type	Exposure Lin	nit 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)
White mineral oil - Inhalable fraction.	TWA		5 mg/m3	US. ACGIH Threshold Limit Values (2011)
White mineral oil - Mist.	PEL		5 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)
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)
Ammonium hydroxide	STEL	35 ppm		US. ACGIH Threshold Limit Values (2011)
	TWA	25 ppm		US. ACGIH Threshold Limit Values (2011)
	PEL	50 ppm	35 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 (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)
White mineral oil - Mist.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
White mineral oil - Mist.	TWAEV	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
White mineral oil - Mist.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	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:	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. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

## 9. Physical and chemical properties

Appearance	
Physical state:	solid
Form:	Paste
Color:	Gray
Odor:	Mild
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:	1.58
Solubility(ies)	
Solubility in water:	Miscible with water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.



Auto-ignition temperature: Decomposition temperature:	No data available. 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:	Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases.
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 Ingestion:	<b>xposure</b> 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. May cause an allergic skin reaction.
Eye contact:	Eye contact is possible and should be avoided.
Information on toxicological eff	ects
Acute toxicity (list all possible	e routes of exposure)
Oral Product:	ATEmix: 26,731.94 mg/kg
Dermal Product:	ATEmix: 6,643.14 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:	<b>on</b> No data available.
Specified substance(s): White mineral oil	in vivo (Rabbit, 24 - 72 hrs): Not irritating
Amorphous silica	in vivo (Rabbit, 24 hrs): Not irritating
Ammonium hydroxide	Severely 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:
Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.
Chlorothalonil	Overall evaluation: Possibly carcinogenic to humans.
<b>US. National Toxicology Program</b> Crystalline Silica (Quartz)/ Silica Sand	
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:	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 environment:

Fish Product:	No data available.
Specified substance(s): Ammonium hydroxide	LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 15 mg/l Mortality
Chlorothalonil	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 0.018 mg/l Mortality
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Ammonium hydroxide	LC 50 (Water flea (Daphnia magna), 25 h): 60 mg/l Mortality LC 50 (Water flea (Ceriodaphnia dubia), 48 h): > 0 - 10 mg/l Mortality
Chlorothalonil	LC 50 (Water flea (Daphnia magna), 48 h): 0.151 - 0.253 mg/l Mortality LC 50 (Water flea (Moina macrocopa), 3 h): > 10 mg/l Mortality LC 50 (Amphipod (Neoniphargus), 7 d): > 0.04 mg/l Mortality LC 50 (Amphipod (Neoniphargus), 4 d): > 0.04 mg/l Mortality LC 50 (Isopod (Colubotelson chiltoni minor), 4 d): > 0.04 mg/l Mortality

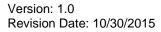
#### Chronic hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): White mineral oil	NOAEL (Oncorhynchus mykiss, 28 d): >= 1,000 mg/l QSAR
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): Chlorothalonil	Algae, algal mat (Algae), Bioconcentration Factor (BCF): 271 (Static)
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.
Mobility in Soil:	No data available.
Other Adverse Effects:	Harmful to aquatic organisms.
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)

#### Chemical Identity

Formaldehyde

OSHA hazard(s) Acute toxicity Skin irritation Skin sensitization Flammability respiratory tract irritation Respiratory sensitization Cancer Eye irritation

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

<u>Chemical Identity</u> Ammonium hydroxide Formaldehyde Zinc Ethyl alcohol

#### Reportable quantity 1000 lbs. 100 lbs. 1000 lbs. 1000 lbs.

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

#### Hazard categories

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

#### SARA 302 Extremely Hazardous Substance

	<u>Reportable</u>	
Chemical Identity	quantity	
Formaldehyde	100 lbs.	4

Threshold Planning Quantity 500 lbs.

#### SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Ammonium hydroxide	1000 lbs.
Zinc oxide	
Formaldehyde	100 lbs.
Zinc	1000 lbs.
Ethyl alcohol	100 lbs.
Copper phthalocyanine	

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Formaldehyde	500lbs
Calcium Carbonate	500 lbs
(Limestone)	
White mineral oil	500 lbs
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	
Amorphous silica	500 lbs
Ammonium hydroxide	500 lbs
Chlorothalonil	500 lbs

#### SARA 313 (TRI Reporting)

**Chemical Identity** 

Chlorothalonil



#### 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):

Chemical IdentityReportable quantityFormaldehyde15000 lbs

#### 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) White mineral oil

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

<u>Chemical Identity</u> Calcium Carbonate (Limestone) White mineral oil Crystalline Silica (Quartz)/ Silica Sand Chlorothalonil Formaldehyde

#### US. Pennsylvania RTK - Hazardous Substances

#### Chemical Identity

Calcium Carbonate (Limestone) White mineral oil

#### US. Rhode Island RTK

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

#### **Other Regulations:**

Regulatory VOC (less water	31 g/l
and exempt solvent):	
VOC Method 310:	1.29 %

#### **Inventory Status:**

Australia AICS:

Canada DSL Inventory List:

EINECS, ELINCS or NLP:

#### Japan (ENCS) List:

China Inv. Existing Chemical Substances:

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

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.

One or more components in this product are

exempt from the Inventory.



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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:	10/30/2015
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.