

Revision Date: 08/14/2015

# **SAFETY DATA SHEET**

## 1. Identification

Material name: TREMPRO 645 ALUMINUM - 12

Material: 645810 312

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:EH&S DepartmentTelephone:216-292-5000

**Emergency telephone number:** 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
Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1B

## **Unknown toxicity - Health**

Acute toxicity, oral 24.49 %
Acute toxicity, dermal 26.81 %
Acute toxicity, inhalation, vapor 99.74 %
Acute toxicity, inhalation, dust or mist 97.69 %

## **Environmental Hazards**

Acute hazards to the aquatic Category 3 environment

# **Unknown toxicity - Environment**

Acute hazards to the aquatic 75.06 % environment Chronic hazards to the aquatic 100 % environment

#### **Label Elements**

#### **Hazard Symbol:**



Revision Date: 08/14/2015



Signal Word: Danger

Hazard Statement: Causes skin irritation.

Causes serious eye irritation. May cause genetic defects.

May cause cancer. Harmful to aquatic life.

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

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 (%)*
Amorphous silica	7631-86-9	7 - 13%
Aminosilane	919-30-2	1 - 5%
Aluminum	7429-90-5	0.5 - 1.5%
Aromatic petroleum distillates	64742-95-6	0.1 - 1%
Stoddard solvent (Mineral Spirits)	8052-41-3	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.



Revision Date: 08/14/2015

**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:** 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 measures

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. Do not contaminate water sources or sewer.



Revision Date: 08/14/2015

# 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 Lim	nit Values	Source
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)
Aluminum - Respirable	TWA		1 mg/m3	US. ACGIH Threshold Limit Values
fraction.				(2011)
Aluminum - Respirable	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air
dust as Al				Contaminants (29 CFR 1910.1000)
				(02 2006)
Aluminum - Total dust.	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air
- as Al				Contaminants (29 CFR 1910.1000)
				(02 2006)
Stoddard solvent	TWA	100 ppm		US. ACGIH Threshold Limit Values
(Mineral Spirits)				(2011)
	PEL	500 ppm	2,900	US. OSHA Table Z-1 Limits for Air
			mg/m3	Contaminants (29 CFR 1910.1000)
				(02 2006)



Revision Date: 08/14/2015

Chemical name	type	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	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)	

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. Wash

contaminated clothing before reuse. Avoid contact with skin.

#### 9. Physical and chemical properties

**Appearance** 

Physical state: solid Form: Paste



Revision Date: 08/14/2015

Color: Gray
Odor: Mild sharp

Odor threshold:

pH:

No data available.

No data available.

Melting point/freezing point:

No data available.

Initial boiling point and boiling range:

No data available.

Flash Point:

No data available.

Slower than Ether

Flammability (solid, gas): No Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

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: 1.029

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
No data available.
No data available.
Viscosity:
No data available.
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.

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

mucus membranes.



Revision Date: 08/14/2015

**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: 30,045.03 mg/kg

Dermal

**Product:** ATEmix: 31,130.59 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

Aluminum in vivo (Rabbit, 24 hrs): Not irritating

Aromatic petroleum

distillates

in vivo (Rabbit, 24 - 72 hrs): Not irritating

Stoddard solvent Irritating

(Mineral Spirits)

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** May cause cancer.



Revision Date: 08/14/2015

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

## **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:** No data available.

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):

Aluminum LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 0.31

mg/I Mortality

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Aluminum LC 50 (Water flea (Daphnia magna), 24 h): 3.5 mg/l Mortality

LC 50 (Rotifer (Brachionus calyciflorus), 24 h): > 3 mg/l Mortality

LC 50 (Ridged-beak peaclam (Pisidium compressum), 96 h): > 0.4 mg/l



Revision Date: 08/14/2015

Mortality

LC 50 (Scud (Hyalella azteca), 96 h): > 1 mg/l Mortality LC 50 (Snail (Amnicola limosa), 96 h): > 1 mg/l Mortality

#### Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Aluminum LOAEL (Pimephales promelas, 28 d): 11.9 mg/l experimental result

EC 50 (Pimephales promelas, 7 d): 0.695 mg/l experimental result LOAEL (Salvelinus fontinalis, 30 d): 0.169 mg/l experimental result EC 50 (Pimephales promelas, 7 d): 3.999 mg/l experimental result EC 10 (Pimephales promelas, 7 d): 0.726 mg/l experimental result

Aromatic petroleum

distillates

NOAEL (Daphnia magna, 21 d): 2.6 mg/l read across

**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):

Aluminum Brook trout (Salvelinus fontinalis), Bioconcentration Factor (BCF): 36 (Flow

through)

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Specified substance(s):

Stoddard solvent (Mineral Log Kow: 3.16 - 7.15

Spirits)

Mobility in Soil: No data available.

Other Adverse Effects: Harmful to aquatic organisms.



Revision Date: 08/14/2015

# 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> <u>Reportable quantity</u>

Ethyl alcohol 100 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

Ethyl alcohol 100 lbs.



Revision Date: 08/14/2015

#### SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u> <u>Threshold Planning Quantity</u>

Amorphous silica 500 lbs
Aminosilane 500 lbs
Aluminum 500 lbs
Aromatic petroleum 500 lbs

distillates

Stoddard solvent (Mineral 500 lbs

Spirits)

## **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**

Amorphous silica

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

#### **Chemical Identity**

Amorphous silica

#### US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Amorphous silica

## **US. Rhode Island RTK**

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

#### Other Regulations:

Regulatory VOC (less water 34 g/l

and exempt solvent):

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.



Revision Date: 08/14/2015

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.