

Revision Date: 11/30/2018

SAFETY DATA SHEET

1. Identification

Material name: TREMprime Silicone Metal Primer

Material: 943202 011

Recommended use and restriction on use

Recommended use: Coatings 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

Physical Hazards

Flammable liquids Category 3

Health Hazards

Acute toxicity (Inhalation - vapor) Category 4
Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1A

Unknown toxicity - Health

Acute toxicity, oral 0.1 %
Acute toxicity, dermal 8.1 %
Acute toxicity, inhalation, vapor 13.2 %
Acute toxicity, inhalation, dust or mist

Label Elements

Hazard Symbol:





Revision Date: 11/30/2018

Signal Word: Danger

Hazard Statement: Flammable liquid and vapor.

Harmful if inhaled.

May cause genetic defects.

May cause cancer.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed. Ground and bond

container and receiving equipment. Use explosion-proof

[electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective

clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. 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 INHALED: Remove person to fresh air and keep comfortable for

breathing. IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water [or shower]. Call a POISON

CENTER/doctor/... IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). In case of fire: Use... to extinguish.

Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

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):

Static accumulating flammable liquid can become electrostatically charged

even in bonded and grounded equipment. Sparks may ignite liquid and

vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Hydrotreated heavy naphtha	64742-48-9	50 - <100%
Tetrabutyl titanate	5593-70-4	1 - <5%
Tetraethoxysilane	78-10-4	1 - <5%
Light Alkylate Naphtha	64741-66-8	1 - <5%
Ethyl alcohol	64-17-5	0.1 - <1%
n-Butanol	71-36-3	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



Revision Date: 11/30/2018

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. Take off immediately all

contaminated clothing. If skin irritation occurs: Get medical advice/attention.

Eve contact: Any material that contacts the eve 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: Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Water may be

ineffective in fighting the fire. Fight fire from a protected location. Move

containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of

vapors or gases to explosive concentrations.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep

upwind.



Revision Date: 11/30/2018

Methods and material for containment and cleaning

up:

Dam and absorb spillages with sand, earth or other non-combustible material. 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: Provide adequate ventilation. Wear appropriate personal protective

equipment. Observe good industrial hygiene practices. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment.

Take precautionary measures against static discharges.

Conditions for safe storage,

including any incompatibilities:

Store locked up. Store in a well-ventilated place. Store in a cool place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values		Source
Tetraethoxysilane	TWA	10 ppm		US. ACGIH Threshold Limit Values (2011)
	PEL	100 ppm	850 mg/m3	US. OSHA Table Z-1 Limits for Air
				Contaminants (29 CFR 1910.1000) (02 2006)
Ethyl alcohol	STEL	1,000 ppm		US. ACGIH Threshold Limit Values (2011)
	PEL	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1 Limits for Air
			_	Contaminants (29 CFR 1910.1000) (02 2006)
n-Butanol	TWA	20 ppm		US. ACGIH Threshold Limit Values (2011)
	PEL	100 ppm	300 mg/m3	US. OSHA Table Z-1 Limits for Air
				Contaminants (29 CFR 1910.1000) (02 2006)



Revision Date: 11/30/2018

Chemical name	Туре	Exposure Lin	nit Values	Source
Hydrotreated heavy naphtha	TWA		525 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Tetraethoxysilane	TWA	10 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Tetraethoxysilane	TWA	10 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Tetraethoxysilane	TWA	10 ppm	85 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Ethyl alcohol	STEL	1,000 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Ethyl alcohol	STEL	1,000 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Ethyl alcohol	TWA	1,000 ppm	1,880 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
n-Butanol	CEILING	30 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	15 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
n-Butanol	TWA	20 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
n-Butanol	CEILING	50 ppm	152 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

Chemical name	Туре	Exposure Lim	it Values	Source
Hydrotreated heavy naphtha	TWA		525 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Tetraethoxysilane	TWA	10 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Tetraethoxysilane	TWA	10 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Tetraethoxysilane	TWA	10 ppm	85 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Ethyl alcohol	STEL	1,000 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Ethyl alcohol	STEL	1,000 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Ethyl alcohol	TWA	1,000 ppm	1,880 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
n-Butanol	CEILING	30 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	15 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation



Revision Date: 11/30/2018

				296/97, as amended) (07 2007)
n-Butanol	TWA	20 ppm		Canada. Ontario OELs. (Control of Exposure to
				Biological or Chemical Agents) (11 2010)
n-Butanol	CEILING	50 ppm	152 mg/m3	Canada. Quebec OELs. (Ministry of Labor -
			-	Regulation Respecting the Quality of the Work
				Environment) (09 2017)

Appropriate Engineering

Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical

ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

General information: Use explosion-proof ventilation equipment. 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 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. When using do not smoke.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Pale yellow

Odor: Mild petroleum/solvent
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: 25 °C 77 °F
Evaporation rate: Slower than Ether

Flammability (solid, gas):

No
Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.



Revision Date: 11/30/2018

Explosive limit - lower (%):

Vapor pressure:

No data available.

No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

in the bottom of containers.

Relative density: 0.79

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: Heat, sparks, flames.

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 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.

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.



Revision Date: 11/30/2018

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Hydrotreated heavy

naphtha

LD 50 (Rat): > 5,000 mg/kg

Tetrabutyl titanate LD 50 (Rat): > 2,000 mg/kg

Tetraethoxysilane LD 50 (Rat): > 2,500 mg/kg

Light Alkylate Naphtha LD 50 (Rat): > 6,000 mg/kg

Ethyl alcohol LD 50 (Rat): 10,470 mg/kg

n-Butanol LD 50 (Rat): 2,292 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Hydrotreated heavy

naphtha

LD 50 (Rabbit): > 2,000 mg/kg

Light Alkylate Naphtha LD 50 (Rabbit): > 3,000 mg/kg

Ethyl alcohol LD 50 (Rabbit): 17,100 mg/kg

n-Butanol LD 50 (Rabbit): 3,430 mg/kg

Inhalation

Product: ATEmix: 8.52 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.



Revision Date: 11/30/2018

Specified substance(s):

Hydrotreated heavy

in vivo (Rabbit): Study design not appropriate to classify skin irritation.

naphtha Experimental result, Supporting study

Tetrabutyl titanate in vivo (Rabbit): Highly irritating Experimental result, Weight of Evidence

study

Light Alkylate Naphtha in vivo (Rabbit): Irritating Experimental result, Key study

Ethyl alcohol in vivo (Rabbit): Not irritant Experimental result, Key study

n-Butanol Draize test (Rabbit): Category 2 Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Hydrotreated heavy

naphtha

Rabbit, 24 - 72 hrs: Not irritating

Tetraethoxysilane Rabbit, 24 - 72 hrs: Not irritating

Light Alkylate Naphtha Rabbit: Not irritating

n-Butanol Rabbit, 24 - 72 hrs: Category 1

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Ethyl alcohol Overall evaluation: Carcinogenic to humans. Overall evaluation:

Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

Ethyl alcohol Known To Be Human Carcinogen.

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

No carcinogenic components identified



Revision Date: 11/30/2018

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):

Ethyl alcohol LC 50 (Fathead minnow (Pimephales promelas), 96 h): 13,480 mg/l Mortality

n-Butanol LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1,630 - 1,840 mg/l

Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

n-Butanol EC 50 (Water flea (Daphnia magna), 48 h): 1,897 - 2,072 mg/l Intoxication

Chronic hazards to the aquatic environment:



Revision Date: 11/30/2018

Fish

Product: No data available.

Specified substance(s):

Hydrotreated heavy

naphtha

LL 50 (Pimephales promelas, 14 d): 5.2 mg/l Experimental result, Supporting

study

NOAEL (Pimephales promelas, 14 d): 2.6 mg/l Experimental result,

Supporting study

NOAEL (Daphnia magna, 21 d): 2.6 mg/l Other, Key study EC 50 (Daphnia magna, 21 d): 10 mg/l Other, Key study

Light Alkylate Naphtha LL 50 (Pimephales promelas, 14 d): 5.2 mg/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.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Ethyl alcohol Log Kow: -0.31

n-Butanol Log Kow: 0.88

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.



Revision Date: 11/30/2018

Contaminated Packaging: No data available.

14. Transport information

TDG:

UN1139, COATING SOLUTION, 3, PG III

CFR / DOT:

UN1139, Coating solution, 3, PG III

IMDG:

UN1139, COATING SOLUTION, 3, PG III

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

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. n-Butanol 5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

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

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route or exposure)

Germ Cell Mutagenicity

Carcinogenicity

Hazards Not Otherwise Classified (HNOC)

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



Revision Date: 11/30/2018

SARA 304 Emergency Release Notification

<u>Chemical Identity</u> <u>Reportable quantity</u>

Ethyl alcohol 100 lbs. n-Butanol 5000 lbs.

SARA 311/312 Hazardous Chemical

Chemical IdentityThreshold Planning QuantityHydrotreated heavy10000 lbsnaphtha10000 lbsTetrabutyl titanate10000 lbsTetraethoxysilane10000 lbsLight Alkylate Naphtha10000 lbs

Tetraethoxysilane 10000 lbs Light Alkylate Naphtha 10000 lbs Ethyl alcohol 10000 lbs n-Butanol 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

Tetraethoxysilane Ethyl alcohol

US. Massachusetts RTK - Substance List

Chemical Identity

Tetraethoxysilane

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Hydrotreated heavy naphtha Tetraethoxysilane

US. Rhode Island RTK

Chemical Identity

Tetraethoxysilane

International regulations



Revision Date: 11/30/2018

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

VOC:

Regulatory VOC (less water and : 671 g/l

exempt solvent)

VOC Method 310 : 84.90 %



Revision Date: 11/30/2018

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.

Mexico INSQ: One or more components in this product are

not listed on or exempt from the Inventory.

Ontario Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Taiwan Chemical Substance Inventory:

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.



Revision Date: 11/30/2018

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.