

Revision Date: 10/30/2015

SAFETY DATA SHEET

1. Identification

Material name: FYRE-CAULK LIGHT RED-30 CTG CS

Material: 927974 323

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 Cleveland 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

Acute toxicity (Inhalation - dust and Category 4

mist)

Skin sensitizer Category 1
Carcinogenicity Category 1A

Unknown toxicity - Health

Acute toxicity, oral 45 %
Acute toxicity, dermal 52.25 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust or mist 92.38 %

Environmental Hazards

Acute hazards to the aquatic Category 3

environment

Unknown toxicity - Environment

Acute hazards to the aquatic 96.78 %

environment

Chronic hazards to the aquatic 100 %

environment

Label Elements

Hazard Symbol:





Revision Date: 10/30/2015

Signal Word: Danger

Hazard Statement: Harmful if inhaled.

May cause an allergic skin reaction.

May cause cancer. Harmful to aquatic life.

Precautionary Statement: Prevention:

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

breathing. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. 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	15 - 40%
White mineral oil	8042-47-5	5 - 10%
Graphite intercallation	7782-42-5	1 - 5%
Fibrous Glass	65997-17-3	1 - 5%
1,3-Propanediol, 2,2,bis (hydroxymethyl)-	115-77-5	1 - 5%
Propylene glycol	57-55-6	1 - 5%
Amorphous silica	7631-86-9	1 - 5%
Melamine	108-78-1	1 - 5%
Iron oxide	1309-37-1	0.5 - 1.5%
Titanium dioxide	13463-67-7	0.5 - 1.5%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%
Zinc oxide	1314-13-2	0.1 - 1%
Ammonium hydroxide	1336-21-6	0.1 - 1%
Chlorothalonil	1897-45-6	0.1 - 1%



Revision Date: 10/30/2015

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

4. First-aid measures

Ingestion: Rinse mouth thoroughly.

Inhalation: Move to fresh air.

Skin Contact: 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: Rinse immediately with plenty of water.

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 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:

according to local regulations.

Collect spillage in containers, seal securely and deliver for disposal



Revision Date: 10/30/2015

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 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)
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)
Graphite intercallation - Respirable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (2011)
Graphite intercallation - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Graphite intercallation - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Graphite intercallation	TWA	15 millions	US. OSHA Table Z-3 (29 CFR
		of particles	1910.1000) (2000)
		per cubic	
		foot of air	
Fibrous Glass -	TWA	5 mg/m3	US. ACGIH Threshold Limit Values
Inhalable fraction.			(03 2014)
Fibrous Glass - Fiber.	TWA	fibers/cm3	US. ACGIH Threshold Limit Values (03 2014)
	TWA	1 fibers/cm3	US. ACGIH Threshold Limit Values (03 2014)



	T		
	TWA	1 fibers/cm3	US. ACGIH Threshold Limit Values (03 2014)
	TWA	1 fibers/cm3	US. ACGIH Threshold Limit Values (03 2014)
	TWA	1 fibers/cm3	US. ACGIH Threshold Limit Values (03 2014)
	TWA	0.2 fibers/cm3	US. ACGIH Threshold Limit Values (03 2014)
1,3-Propanediol, 2,2,bis (hydroxymethyl)-	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
1,3-Propanediol, 2,2,bis (hydroxymethyl) Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
1,3-Propanediol, 2,2,bis (hydroxymethyl) 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)
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	
	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)
Zinc oxide - Respirable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (2011)
	STEL	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Zinc oxide - Fume.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Zinc oxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)



				(02 2006)
Zinc oxide - Respirable	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air
fraction.				Contaminants (29 CFR 1910.1000)
				(02 2006)
Ammonium hydroxide	STEL	35 ppm		US. ACGIH Threshold Limit Values
				(2011)
	TWA	25 ppm		US. ACGIH Threshold Limit Values
				(2011)
	PFI	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)



Graphite intercallation - Respirable.	TWA	2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Graphite intercallation - Respirable fraction.	TWAEV	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Graphite intercallation - Respirable dust.	TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Fibrous Glass - Fiber.	TWA	0.2 fibers/cm3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	1 fibers/cm3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Fibrous Glass - Inhalable fibers.	TWA	5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Fibrous Glass - Inhalable	TWAEV	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Fibrous Glass - Respirable fibers.	TWAEV	1 fibers/mL	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Fibrous Glass - Fiber.	TWAEV	0.2 fibers/mL	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Fibrous Glass - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Fibrous Glass - Fiber.	TWA	fibres/cm3 (non- asbestos fibres) size restriction s apply	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	TWA	fibres/cm3 (non-asbestos fibres) size restriction s apply	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)



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1,3-Propanediol, 2,2,bis	TWA	3 mg/m3	(Occupational Exposure Limits for
(hydroxymethyl) Respirable fraction.			Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1,3-Propanediol, 2,2,bis	TWA	10 mg/m3	
(hydroxymethyl) Total dust.			Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1,3-Propanediol, 2,2,bis	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical
(hydroxymethyl)-		40 4 0	Agents) (11 2010)
1,3-Propanediol, 2,2,bis (hydroxymethyl)-	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Propylene glycol - Aerosol.	TWAEV	10 mg/m3	· · · · · · · · · · · · · · · · · · ·
Propylene glycol -	TWAEV	50 ppm 155	
Vapor and aerosol, inhalable fraction.		mg/m3	Exposure to Biological or Chemical Agents) (11 2010)
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	
Amorphous silica - Respirable dust.	TWA	6 mg/m3	
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	
Titanium dioxide	TWAEV	10 mg/m3	
Titanium dioxide - Total dust.	TWA	10 mg/m3	



Revision Date: 10/30/2015

			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: 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: Red
Odor: Mild

Odor threshold:

pH:

No data available.

No data available.

Melting point/freezing point:

No data available.

No data available.

No data available.

No data available.

Flash Point:

No data available.

Slower than Ether

Flammability (solid, gas):

No
Upper/lower limit on flammability or explosive limits



Revision Date: 10/30/2015

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

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: 1.27

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.

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 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.

Skin Contact: May cause an allergic skin reaction.

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: 39,312.58 mg/kg



Revision Date: 10/30/2015

Dermal

Product: ATEmix: 10,636.3 mg/kg

Inhalation

Product: ATEmix: 3.35 mg/l

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):

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

Graphite intercallation in vivo (Rabbit, 24 - 72 hrs): Category 2

1,3-Propanediol, 2,2,bis

(hydroxymethyl)-

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

Propylene glycol (Human): Irritating

Amorphous silica in vivo (Rabbit, 24 hrs): Not irritating

Melamine in vivo (Rabbit): Not irritating

Iron oxide in vivo (Rabbit, 1 - 72 hrs): Not irritating

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

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

Ammonium hydroxide Severely Irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.



Revision Date: 10/30/2015

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Fibrous Glass Overall evaluation: Not classifiable as to carcinogenicity to humans. Overall

evaluation: Not classifiable as to carcinogenicity to humans. Overall evaluation: Possibly carcinogenic to humans. Overall evaluation: Possibly

carcinogenic to humans.

Titanium dioxide Overall evaluation: Possibly carcinogenic to humans.

Crystalline Silica (Quartz)/ Silica

Sand

Overall evaluation: Carcinogenic to humans.

Chlorothalonil Overall evaluation: Possibly carcinogenic to humans.

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

Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated Fibrous Glass

to be a Human Carcinogen.

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: 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.



Revision Date: 10/30/2015

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

1,3-Propanediol, 2,2,bis

(hydroxymethyl)-

LC 50 (Ide, silver or golden orfe (Leuciscus idus)): > 5,000 mg/l Mortality

Propylene glycol LC 50 (Fathead minnow (Pimephales promelas), 96 h): 55,770 mg/l Mortality

Titanium dioxide LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality

Zinc oxide LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2,246 mg/l Mortality

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):

1,3-Propanediol, 2,2,bis

(hydroxymethyl)-

EC 50 (Water flea (Daphnia magna), 24 h): 35,026 - 45,680 mg/l Intoxication

Propylene glycol EC 50 (Water flea (Daphnia magna), 48 h): > 10,000 mg/l Intoxication

EC 50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Intoxication LC 50 (Brine shrimp (Artemia salina), 24 h): > 10,000 mg/l Mortality

Titanium dioxide EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication

Zinc oxide LC 50 (Water flea (Daphnia magna), 48 h): 24.6 mg/l Mortality

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



Revision Date: 10/30/2015

Graphite intercallation NOAEL (Danio rerio, 72 h): 120 - 360 mg/l experimental result

Propylene glycol NOAEL (Pimephales promelas, 7 d): 11,530 mg/l experimental result

Melamine NOAEL (Oncorhynchus mykiss, 18 d): < 125 mg/l experimental result

Iron oxide LOAEL (Pimephales promelas, 33 d): 1.6 mg/l experimental result

Titanium dioxide LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l experimental

result

Zinc oxide NOAEL (Oncorhynchus mykiss, 30 d): 974 µg/l interpreted

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):

Chlorothalonil Algae, algal mat (Algae), Bioconcentration Factor (BCF): 271 (Static)

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

Specified substance(s):

1,3-Propanediol, 2,2,bis Log Kow: -1.69

(hydroxymethyl)-

Propylene glycol Log Kow: -0.92

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.



Revision Date: 10/30/2015

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 IdentityOSHA hazard(s)FormaldehydeAcute toxicitySkin irritationSkin sensitizationFlammability

respiratory tract irritation Respiratory sensitization

Cancer Eye irritation

Acrylonitrile Liver

Central nervous system

Flammability
Eye irritation
Skin irritation
Skin sensitization
Respiratory irritation

Cancer Acute toxicity



Revision Date: 10/30/2015

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Ammonium hydroxide	1000 lbs.
Formaldehyde	100 lbs.
Sulfuric acid	1000 lbs.
Methanol	5000 lbs.
Nitric acid	1000 lbs.
Propionic acid	5000 lbs.
Acrylamide	5000 lbs.
Acrylonitrile	100 lbs.
Ethyl Acrylate	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

•	Reportable	
Chemical Identity	quantity	Threshold Planning Quantity
Formaldehyde	100 lbs.	500 lbs.
Sulfuric acid	1000 lbs.	1000 lbs.
Nitric acid	1000 lbs.	1000 lbs.
Acrylamide	5000 lbs.	
Acrylonitrile	100 lbs.	10000 lbs.

SARA 304 Emergency Release Notification Chemical Identity Reportable qual

Chemical Identity	Reportable quantity
Zinc oxide	
Ammonium hydroxide	1000 lbs.
Formaldehyde	100 lbs.
Sulfuric acid	1000 lbs.
Methanol	5000 lbs.
Nitric acid	1000 lbs.
Propionic acid	5000 lbs.
Acrylamide	5000 lbs.
Acrylonitrile	100 lbs.
Ethyl Acrylate	1000 lbs.



Revision Date: 10/30/2015

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Formaldehyde	500lbs
Sulfuric acid	500lbs
Nitric acid	500lbs
Acrylamide	500lbs
Acrylonitrile	500lbs
Calcium Carbonate	500 lbs
(Limestone)	
White mineral oil	500 lbs
Graphite intercallation	500 lbs
Fibrous Glass	500 lbs
1,3-Propanediol, 2,2,bis	500 lbs
(hydroxymethyl)-	
Propylene glycol	500 lbs
Amorphous silica	500 lbs
Melamine	500 lbs
Iron oxide	500 lbs
Titanium dioxide	500 lbs
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	
Zinc oxide	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 Identity	Reportable quantity
Formaldehyde	15000 lbs
Sulfuric acid	10000 lbs
Nitric acid	15000 lbs
Acrylonitrile	20000 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
Graphite intercallation
Fibrous Glass
1,3-Propanediol, 2,2,bis (hydroxymethyl)Propylene glycol

Amorphous silica



Revision Date: 10/30/2015

US. Massachusetts RTK - Substance List

Chemical Identity

Calcium Carbonate (Limestone)

White mineral oil

Graphite intercallation

Fibrous Glass

1,3-Propanediol, 2,2,bis (hydroxymethyl)-

Amorphous silica

Melamine

Crystalline Silica (Quartz)/ Silica Sand

Chlorothalonil Formaldehyde Sulfuric acid Nitric acid Acrylamide Acrylonitrile

Ethyl Acrylate

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Calcium Carbonate (Limestone)

White mineral oil

Graphite intercallation

Fibrous Glass

1,3-Propanediol, 2,2,bis (hydroxymethyl)-

Propylene glycol Amorphous silica

Melamine

US. Rhode Island RTK

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

Other Regulations:

Regulatory VOC (less water

and exempt solvent):

VOC Method 310: 0.54 %

Inventory Status:

Australia AICS: One or more components in this product are

10 g/l

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.



Revision Date: 10/30/2015

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.