

Revision Date: 03/28/2016

# SAFETY DATA SHEET

#### 1. Identification

Material name: VULKEM 116 LV BUFF 30 CTG/CS

Material: 426707L 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 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**

Acute toxicity (Inhalation - vapor)

Respiratory sensitizer

Skin sensitizer

Category 1

Germ Cell Mutagenicity

Category 1B

Carcinogenicity

Category 1A

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

Acute toxicity, oral 34.11 %
Acute toxicity, dermal 41.28 %
Acute toxicity, inhalation, vapor 97.33 %
Acute toxicity, inhalation, dust or mist 99.01 %

#### **Environmental Hazards**

Acute hazards to the aquatic Category 2 environment

# **Unknown toxicity - Environment**

Acute hazards to the aquatic 78.43 % environment Chronic hazards to the aquatic 100 % environment

#### **Label Elements**

# **Hazard Symbol:**



Revision Date: 03/28/2016



Signal Word: Danger

Hazard Statement: Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause genetic defects.

May cause cancer. Toxic to aquatic life.

Precautionary Statement: Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. [In case of inadequate ventilation] wear respiratory protection. 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. Avoid release to the environment.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for

breathing. If experiencing respiratory symptoms: Call a POISON

CENTER/doctor. 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	10 - 30%
Titanium dioxide	13463-67-7	3 - 7%
**	**	3 - 7%
Heavy aromatic naphtha	64742-94-5	1 - 5%
Aromatic petroleum distillates	64742-95-6	1 - 5%
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1.5%



Revision Date: 03/28/2016

4,4'-Methylene bis(phenylisocyanate)	101-68-8	0.5 - 1.5%
Polymethylene polyphenyl isocyanate	9016-87-9	0.1 - 1%
1,3,5-Trimethylbenzene	108-67-8	0.1 - 1%
Aluminum oxide	1344-28-1	0.1 - 1%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

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

**Trade secret information:** \*\* A specific chemical identity and/or percentage of composition has been

withheld as a trade secret.

#### 4. First-aid measures

Ingestion: Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

Inhalation: Call a physician or poison control center immediately. If breathing stops,

provide artificial respiration. Move to fresh air. If breathing is difficult, give

oxygen.

**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/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



Revision Date: 03/28/2016

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: Ventilate closed spaces before entering them. Evacuate area. See Section 8 of the SDS for Personal Protective Equipment. Keep upwind. Keep unauthorized personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up:

Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

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

**Notification Procedures:** 

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. Do not breathe dust/fume/gas/mist/vapors/spray. 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	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total			Contaminants (29 CFR 1910.1000)
dust.			(02 2006)
Calcium Carbonate	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) -			Contaminants (29 CFR 1910.1000)
Respirable fraction.			(02 2006)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values
			(2011)
Titanium dioxide - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			Contaminants (29 CFR 1910.1000)



				(02.2006)
**	TWA	10	/ <u></u>	(02 2006) US. ACGIH Threshold Limit Values
	IVVA		mg/m3	(03 2015)
	TWA	3	mg/m3	US. ACGIH Threshold Limit Values (03 2015)
	PEL	5	mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	PEL	15	mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	15	mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	of pa	nillions articles r cubic ot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA		mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	of pa	nillions articles r cubic ot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Heavy aromatic naphtha - Non-aerosol as total hydrocarbon vapor	TWA		200 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Heavy aromatic naphtha	PEL	100 ppm	400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
1,2,4-Trimethylbenzene	TWA	25 ppm		US. ACGIH Threshold Limit Values (2011)
4,4'-Methylene bis(phenylisocyanate)	TWA	0.005 ppm		US. ACGIH Threshold Limit Values (2011)
	Ceiling	0.02 ppm 0.2	mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Polymethylene polyphenyl isocyanate	TWA	0.005 ppm		US. ACGIH Threshold Limit Values (2011)
	Ceiling	0.02 ppm 0.2	mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
1,3,5-Trimethylbenzene	TWA	25 ppm		US. ACGIH Threshold Limit Values (2011)
Aluminum oxide - Respirable fraction.	TWA		mg/m3	US. ACGIH Threshold Limit Values (2011)
	PEL		mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum oxide - 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	TWA		2.4	US. OSHA Table Z-3 (29 CFR

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(Quartz)/ Silica Sand -		millions of	1910.1000) (2000)
Respirable.		particles	
		per cubic	
		foot of air	
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR
			1910.1000) (2000)
Crystalline Silica	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -		_	1910.1000) (2000)
Total dust.			

Chemical name	type	Exposure Limit Values	Source
Diisodecyl phthalate	TWAEV	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
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)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Polyethylene - 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) (05 2013)
Polyethylene - 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) (05 2013)
Polyethylene - Respirable particles.	TWAEV	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Polyethylene - Inhalable	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Polyethylene - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
Heavy aromatic naphtha - Non-aerosol as total hydrocarbon vapor	TWA	200 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Heavy aromatic naphtha - Non-aerosol as total hydrocarbon vapor	TWAEV	200 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)





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Heavy aromatic naphtha	TWA	400 ppm	1,590 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
1,2,4-Trimethylbenzene	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1,2,4-Trimethylbenzene	TWAEV	25 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
1,2,4-Trimethylbenzene	TWA	25 ppm	123 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
4,4'-Methylene bis(phenylisocyanate)	CEILING	0.01 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.005 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
4,4'-Methylene bis(phenylisocyanate)	TWAEV	0.005 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	CEV	0.02 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
4,4'-Methylene bis(phenylisocyanate)	TWA	0.005 ppm	0.051 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Polymethylene polyphenyl isocyanate	TWA	0.005 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	CEILING	0.01 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.005 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	CEILING	0.01 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97,



Revision Date: 03/28/2016

				as amended) (07 2007)
Polymethylene polyphenyl isocyanate	TWAEV	0.005 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	CEV	0.02 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Polymethylene polyphenyl isocyanate	TWA	0.005 ppm	0.051 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
1,3,5-Trimethylbenzene	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1,3,5-Trimethylbenzene	TWAEV	25 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
1,3,5-Trimethylbenzene	TWA	25 ppm	123 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA		0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV		0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA		0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required.

Observe good industrial hygiene practices. Observe occupational exposure

limits and minimize the risk of inhalation of dust.

## Individual protection measures, such as personal protective equipment

**General information:** 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.



Revision Date: 03/28/2016

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below

recommended exposure limits (where applicable) or to an acceptable level

(in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter,

cartridge or canister. Contact health and safety professional or

manufacturer for specific information.

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: Tan
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: 99 °C 210 °F(ISO 3679 (seta closed))

**Evaporation rate:** Slower than n-Butyl Acetate

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.

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

in the bottom of containers.

Relative density: 1.16

Solubility(ies)

Solubility in water:
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.



Revision Date: 03/28/2016

**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. Amines. 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.

**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 effects

# Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix: 11,594.99 mg/kg

**Dermal** 

**Product:** ATEmix: 17,370.93 mg/kg

Inhalation

**Product:** ATEmix: 17.97 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

Titanium dioxide in vivo (Rabbit): Experimental result, Supporting study



Revision Date: 03/28/2016

Heavy aromatic

naphtha

in vivo (Rabbit): Experimental result, Key study

Aromatic petroleum

distillates

in vivo (Rabbit): Experimental result, Key study

1,2,4-Trimethylbenzene in vivo (Rabbit): Read-across from supporting substance (structural

analogue or surrogate), Key study

4,4'-Methylene

bis(phenylisocyanate)

in vivo (Rabbit): Read-across based on grouping of substances (category

approach), Key study

1,3,5-Trimethylbenzene in vivo (Rabbit): Experimental result, Key study

Aluminum oxide in vivo (Rabbit): Experimental result, Key study

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

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

Heavy aromatic

naphtha

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

Aromatic petroleum

distillates

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

1,2,4-Trimethylbenzene in vivo (Rabbit, 30 min): Not irritating

4,4'-Methylene

bis(phenylisocyanate)

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

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

Respiratory or Skin Sensitization

**Product:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause sensitization by inhalation.

Carcinogenicity

**Product:** No data available.



Revision Date: 03/28/2016

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

Titanium dioxide Overall evaluation: Possibly carcinogenic to humans.

Crystalline Silica (Quartz)/ Silica

Sand

Overall evaluation: Carcinogenic to humans.

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

Crystalline Silica Known To Be Human Carcinogen.

(Quartz)/ Silica

Sand

#### 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):



Revision Date: 03/28/2016

1,2,4-Trimethylbenzene LC 50 (Fathead minnow (Pimephales promelas), 96 h): 7.19 - 8.28 mg/l

Mortality

1,3,5-Trimethylbenzene LC 50 (Goldfish (Carassius auratus), 96 h): 9.89 - 15.05 mg/l Mortality

**Aquatic Invertebrates** 

Product: No data available.

Specified substance(s):

1,2,4-Trimethylbenzene LC 50 (Scud (Elasmopus pectinicrus), 24 h): 4.89 - 5.62 mg/l Mortality

1,3,5-Trimethylbenzene EC 50 (Water flea (Daphnia magna), 24 h): 50 mg/l Intoxication

Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Titanium dioxide ED 0 (Phoxinus phoxinus, 30 d): >= 1,000 mg/l Experimental result,

Supporting study

LC 10 (Oncorhynchus mykiss, 28 d): 0.981 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study

LC 50 (Oncorhynchus mykiss, 28 d): 7.31 mg/l Read-across from supporting

substance (structural analogue or surrogate), Supporting study

LC 1 (Oncorhynchus mykiss, 28 d): 0.191 mg/l Read-across from supporting

substance (structural analogue or surrogate), Supporting study

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

result, Supporting study

Heavy aromatic naphtha NOAEL (Oncorhynchus mykiss, 28 d): 0.098 mg/l QSAR QSAR, Key study

Aromatic petroleum

distillates

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

study

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

Aluminum oxide NOAEL (Pimephales promelas, 28 d): 4.7 mg/l Experimental result, Weight

of Evidence study

IC 25 (Pimephales promelas, 7 d): 11.59 mg/l Experimental result, Weight of

Evidence study

LOAEL (Salvelinus fontinalis, 60 d): 0.35 mg/l Experimental result, Weight of

Evidence study

NOAEL (Pimephales promelas, 7 d): 0.4 mg/l Read-across based on grouping of substances (category approach), Weight of Evidence study NOAEL (Pimephales promelas, 7 d): >= 0.831 mg/l Experimental result,

Weight of Evidence study

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.



Revision Date: 03/28/2016

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.

Mobility in Soil: No data available.

Other Adverse Effects: Toxic 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**



Revision Date: 03/28/2016

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

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

P-chlorobenzotrifluoride De minimis concentration: 1.0% One-Time Export Notification only.

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

None present or none present in regulated quantities.

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

Chemical Identity	Reportable quantity
4,4'-Methylene	5000 lbs.
bis(phenylisocyanate)	
Polymethylene	5000 lbs.
polyphenyl isocyanate	
Cumene	5000 lbs.
2,4-Toluene diisocyanate	100 lbs.
Xylene	100 lbs.
Toluene-2,6-Diisocyanate	100 lbs.
Ethylbenzene	1000 lbs.
Barium sulfate	1000 lbs.
Chromium	5000 lbs.

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

#### **Hazard categories**

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

# SARA 302 Extremely Hazardous Substance

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Chemical Identity	<u>quantity</u>	Threshold Planning Quantity
2,4-Toluene diisocyanate	100 lbs.	500 lbs.
Toluene-2,6-Diisocyanate	100 lbs.	100 lbs.

#### **SARA 304 Emergency Release Notification**

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Chemical Identity	Reportable quantity	
Diisodecyl phthalate		
4,4'-Methylene	5000 lbs.	
bis(phenylisocyanate)		
Polymethylene	5000 lbs.	
polyphenyl isocyanate		
Cumene	5000 lbs.	
2,4-Toluene diisocyanate	100 lbs.	
Xylene	100 lbs.	
Toluene-2,6-Diisocyanate	100 lbs.	
Ethylbenzene	1000 lbs.	
Barium sulfate	1000 lbs.	
Chromium	5000 lbs.	



Revision Date: 03/28/2016

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
2,4-Toluene diisocyanate	500lbs
Toluene-2,6-Diisocyanate	100lbs
Calcium Carbonate	500 lbs
(Limestone)	
Titanium dioxide	500 lbs
Polyethylene	500 lbs
Heavy aromatic naphtha	500 lbs
Aromatic petroleum	500 lbs
distillates	
1,2,4-Trimethylbenzene	500 lbs
4,4'-Methylene	500 lbs
bis(phenylisocyanate)	
Polymethylene polyphenyl	500 lbs
isocyanate	
1,3,5-Trimethylbenzene	500 lbs
Aluminum oxide	500 lbs
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

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

Chemical Identity Reportable quantity

Xylene 100 lbs.

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

Chemical Identity Reportable quantity

2,4-Toluene diisocyanate 10000 lbs Toluene-2,6-Diisocyanate 10000 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)

Titanium dioxide

P-chlorobenzotrifluoride

Heavy aromatic naphtha

Crystalline Silica (Quartz)/ Silica Sand



Revision Date: 03/28/2016

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

#### **Chemical Identity**

Calcium Carbonate (Limestone)
Titanium dioxide
Heavy aromatic naphtha
Crystalline Silica (Quartz)/ Silica Sand
2,4-Toluene diisocyanate
Toluene-2,6-Diisocyanate
Chromium

#### US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Diisodecyl phthalate Calcium Carbonate (Limestone) Titanium dioxide Heavy aromatic naphtha

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

#### **Chemical Identity**

Diisodecyl phthalate

## Other Regulations:

Regulatory VOC (less water 47 g/l

and exempt solvent):

**VOC Method 310:** 2.61 %

#### **Inventory Status:**

Australia AICS: One or more components in this product are

not listed on or exempt from the Inventory.

Canada DSL Inventory List: All components in this product are listed on or

exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are

not listed on or exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are

not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances:

One or more components in this product are

not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this product are

not listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are

not listed on or exempt from the Inventory.



Revision Date: 03/28/2016

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:** 03/28/2016

Version #: 1.0

Further Information: No data available.

**Disclaimer:** For Industrial Use Only. Keep out of Reach of Children. The hazard

information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.