

# SAFETY DATA SHEET

#### 1. Identification

Material name: TremPro® 640 Material: 604720 801

# Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco Canadian Sealants 220 Wicksteed Ave Toronto ON M4H 1G7 CA

Contact person: Telephone: Emergency telephone number: EH&S Department 1-800-263-6046 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 - dust and mist)	Category 4
Respiratory sensitizer	Category 1
Skin sensitizer	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1A

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

Acute toxicity, oral	11.6 %
Acute toxicity, dermal	18.99 %
Acute toxicity, inhalation, vapor	99.94 %
Acute toxicity, inhalation, dust or mist	97.24 %

#### **Environmental Hazards**

Acute hazards to the aquatic environment

Category 2

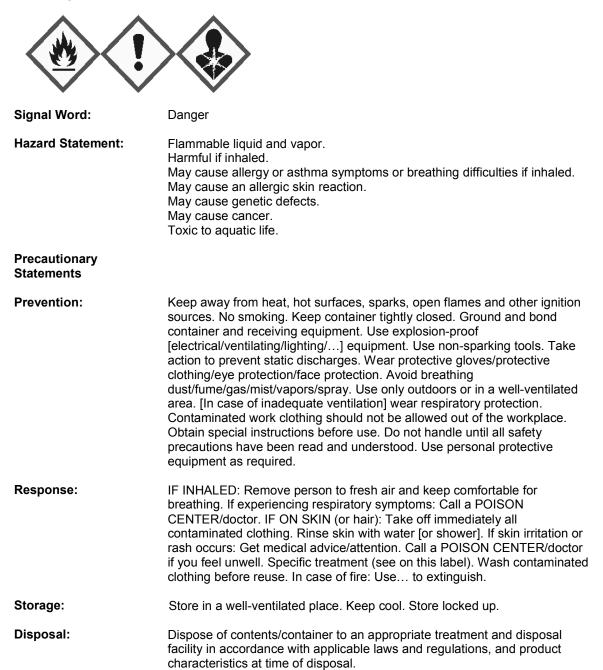
**Unknown toxicity - Environment** 



Acute hazards to the aquatic environment	81.89 %
Chronic hazards to the aquatic environment	100 %

#### Label Elements

Hazard Symbol:





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

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	10 - 30%
Aromatic petroleum distillates	64742-95-6	7 - 13%
1,2,4-Trimethylbenzene	95-63-6	5 - 10%
Xylene	1330-20-7	3 - 7%
Titanium dioxide	13463-67-7	3 - 7%
Aluminum	7429-90-5	1 - 5%
Hydrotreated heavy naphtha	64742-48-9	1 - 5%
Ethylbenzene	100-41-4	1 - 5%
1,3,5-Trimethylbenzene	108-67-8	1 - 5%
4,4'-Methylene bis(phenylisocyanate)	101-68-8	0.1 - 1%
Trimethyl benzene (mixed isomers)	25551-13-7	0.1 - 1%
Cumene	98-82-8	0.1 - 1%
Aluminum oxide	1344-28-1	0.1 - 1%
Polymethylene polyphenyl isocyanate	9016-87-9	0.1 - 1%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%
2,4-Toluene diisocyanate	584-84-9	0.1 - 1%
Dibutyl tin dilaurate	77-58-7	0.1 - 1%

#### **Mixtures**

\* 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:	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:	Take off immediately all contaminated clothing. 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.
	3/24



# Most important symptoms/effects, acute and delayed

Symptoms:	Respiratory tract irritation.				
ndication of immediate medical at	ttention 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) extingu	ishing 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	d 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. Evacuate area. See Section 8 of the SDS for Personal Protective Equipment. 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:	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:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.
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. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.
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 Lim	it 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)
1,2,4-Trimethylbenzene	REL	25 ppm	125 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	25 ppm	125 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	25 ppm	125 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		25 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
	ST ESL		140 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL		700 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL		125 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
	TWA PEL	25 ppm	125 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	TWA	25 ppm		US. ACGIH Threshold Limit Values (2011)
Xylene	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)



	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	150 ppm	655 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	435 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	150 ppm	655 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL		350 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
	ST ESL		80 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
	AN ESL		42 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
	AN ESL		180 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
	STEL	150 ppm	655 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	Ceiling	300 ppm		US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	TWA PEL	100 ppm	435 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	TWA	100 ppm		US. ACGIH Threshold Limit Values (2011)
	STEL	150 ppm		US. ACGIH Threshold Limit Values (2011)
	PEL	100 ppm	435 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)
Titanium dioxide - Respirable fraction.	TWA		15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust.	TWA		15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Respirable fraction.	TWA		5 mg/m3	US. ÓSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust.	TWA		50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum - Respirable fraction.	TWA		1 mg/m3	US. ACGIH Threshold Limit Values (2011)
Aluminum - Total dust as Al	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum - Respirable fraction as Al	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
Aluminum - Respirable fraction.	TWA		5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA		15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum - Total dust.	TWA		50 millions of particles per cubic foot of	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)



			air	
	TWA		15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Ethylbenzene	TWA	20 ppm		US. ACGIH Threshold Limit Values (2011)
*	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air
			0	Contaminants (29 CFR 1910.1000) (02 2006)
1,3,5-Trimethylbenzene	TWA	25 ppm		US. ACGIH Threshold Limit Values (2011)
4,4'-Methylene	TWA	0.005 ppm		US. ACGIH Threshold Limit Values (2011)
bis(phenylisocyanate)	Osilias	0.00	0.0	
	Ceiling	0.02 ppm	0.2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Trimethyl benzene (mixed isomers)	TWA	25 ppm		US. ACGIH Threshold Limit Values (2011)
Cumene	TWA	50 ppm		US. ACGIH Threshold Limit Values (2011)
	PEL	50 ppm	245 mg/m3	US. OSHA Table Z-1 Limits for Air
			0	Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum oxide - Respirable fraction.	TWA		1 mg/m3	US. ACGIH Threshold Limit Values (2011)
	PEL		5 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
	T)A/A		50 millions of	Contaminants (29 CFR 1910.1000) (02 2006)
	TWA		particles per	US. OSHA Table Z-3 (29 CFR 1910.1000) (03
				2016)
			cubic foot of air	
Aluminum ovido Doonirablo	TWA		15 millions of	US OSHA Table 7.2 (20 CED 1010 1000) (02
Aluminum oxide - Respirable fraction.	IWA			US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Iracuon.			particles per	2016)
			cubic foot of	
	TWA		air 5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum oxide - Total dust.	TWA		15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03
				2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA		0.025 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA		0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
	OSHA_AC		0.025 mg/m3	US. OSHA Specifically Regulated Substances
0 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	T			(29 CFR 1910.1001-1053) (03 2016)
Crystalline Silica (Quartz)/	PEL		0.05 mg/m3	US. OSHA Table Z-1 Limits for Air
Silica Sand - Respirable dust.	704		0.4	Contaminants (29 CFR 1910.1000) (03 2016)
Crystalline Silica (Quartz)/	TWA		2.4 millions	US. OSHA Table Z-3 (29 CFR 1910.1000)
Silica Sand - Respirable.			of particles per cubic foot	(2000)
	TWA		of air	
			0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
2,4-Toluene diisocyanate -	STEL	0.005 ppm		US. ACGIH Threshold Limit Values (03 2016)
Inhalable fraction and vapor.				
	TWA	0.001 ppm		US. ACGIH Threshold Limit Values (03 2016)
2,4-Toluene diisocyanate	Ceiling	0.02 ppm	0.14 mg/m3	US. OSHA Table Z-1 Limits for Air
Dibutyl tip dilaurate	STEI		0.2 ma/m2	Contaminants (29 CFR 1910.1000) (02 2006)
Dibutyl tin dilaurate - as Sn	STEL		0.2 mg/m3	US. ACGIH Threshold Limit Values (2011) US. ACGIH Threshold Limit Values (2011)
	TWA		0.1 mg/m3	
	PEL		0.1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Chemical name	Туре	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. (Occupation 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 Wor Environment) (09 2017)
1,2,4-Trimethylbenzene	TWA	25 ppm	123 mg/m3	Canada. Alberta OELs (Occupational Health Safety Code, Schedule 1, Table 2) (07 2009)
1,2,4-Trimethylbenzene	TWA	25 ppm		Canada. British Columbia OELs. (Occupation Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1,2,4-Trimethylbenzene	TWA	25 ppm		Canada. Ontario OELs. (Control of Exposure 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 Wor Environment) (09 2017)
Xylene	TWA	100 ppm	434 mg/m3	Canada. Alberta OELs (Occupational Health Safety Code, Schedule 1, Table 2) (07 2009)
	STEL	150 ppm	651 mg/m3	Canada. Alberta OELs (Occupational Health Safety Code, Schedule 1, Table 2) (07 2009)
Xylene	TWA	100 ppm		Canada. British Columbia OELs. (Occupation Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	150 ppm		Canada. British Columbia OELs. (Occupation Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Xylene	TWA	100 ppm		Canada. Ontario OELs. (Control of Exposure Biological or Chemical Agents) (11 2010)
	STEL	150 ppm		Canada. Ontario OELs. (Control of Exposure Biological or Chemical Agents) (11 2010)
Xylene	STEL	150 ppm	651 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Wor Environment) (09 2017)
	TWA	100 ppm	434 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Wor Environment) (09 2017)



Titanium dioxide - Total dust.	TWA		10 mg/m3	Canada. British Columbia OELs. (Occupationa 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. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWA		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 Regulation Respecting the Qualit		Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Aluminum - Respirable.	TWA		1 mg/m3	Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Aluminum - Respirable fraction.	TWA		1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Aluminum	TWA		10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Aluminum - as Al	TWA		5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Aluminum - Welding fume as Al	TWA		5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Hydrotreated heavy naphtha	TWA		525 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Ethylbenzene	TWA	20 ppm		Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Ethylbenzene	TWA	20 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Ethylbenzene	STEL	125 ppm	543 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	TWA	100 ppm	434 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
1,3,5-Trimethylbenzene	TWA	25 ppm		Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1,3,5-Trimethylbenzene	TWA	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) (09 2017)
4,4'-Methylene bis(phenylisocyanate)	CEILING	0.01 ppm		Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.005 ppm		Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
4,4'-Methylene bis(phenylisocyanate)	TWA	0.005 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
	CEV	0.02 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)



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) (09 2017)
Cumene	STEL	75 ppm		Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	25 ppm		Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Cumene	TWA	50 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Cumene	TWA	50 ppm	246 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Polymethylene polyphenyl isocyanate	TWA	0.005 ppm		Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	CEILING	0.01 ppm		Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	C	).025 mg/m3	Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA		0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
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) (09 2017)
2,4-Toluene diisocyanate	CEILING	0.01 ppm		Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.005 ppm		Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
2,4-Toluene diisocyanate	TWA	0.005 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
	CEV	0.02 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
2,4-Toluene diisocyanate	TWA	0.005 ppm 0	5	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	STEL	0.02 ppm	0.14 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)



# **Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source
Xylene (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEI (03 2013)
Ethylbenzene (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEI (02 2014)
2,4-Toluene diisocyanate (Toluene diamine (sum of 2,4- and 2,6-isomers), with hydrolysis: Sampling time: End of shift.)	5 μg/g (Creatinine in urine)	ACGIH BEI (03 2018)
Appropriate Engineering Controls	Observe good industrial hygiene practices. Of limits and minimize the risk of inhalation of va ventilation or local exhaust ventilation may be	pors and mist. Mechanical
Individual protection measures	s, such as personal protective equipment	
General information: Use explosion-proof ventilation equipment. Good general ver (typically 10 air changes per hour) should be used. Ventilation be matched to conditions. If applicable, use process enclosu exhaust ventilation, or other engineering controls to maintain below recommended exposure limits. If exposure limits have established, maintain airborne levels to an acceptable level.		used. Ventilation rates should process enclosures, local rols to maintain airborne levels sure limits have not been
Eye/face protection:	Wear goggles/face shield.	
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin c	ontact.
Other:	Wear chemical-resistant gloves, footwear, ar appropriate for the risk of exposure. Contact h or manufacturer for specific information.	
Respiratory Protection:	If engineering controls do not maintain airborr recommended exposure limits (where applica (in countries where exposure limits have not b approved respirator must be worn. Air-purifyir appropriate, government approved (where ap cartridge or canister. Contact health and safe manufacturer for specific information.	ble) or to an acceptable level been established), an ng respirator with an plicable), air-purifying filter,
Hygiene measures:	Observe good industrial hygiene practices. W immediately after handling the product. When Contaminated work clothing should not be all Avoid contact with skin.	using do not smoke.

# 9. Physical and chemical properties

## Appearance

Physical state:	liquid
Form:	liquid



Odor threshold: No data available.   PH: No data available.   Melting point/freezing point: No data available.   Initial boiling point and boiling range: > 121 °C > 250 °F   Flash Point: 39 °C 103 °F (Setaflash Closed Cup)   Evaporation rate: Slower than Ether   Flammability (solid, gas): No   Upper/lower limit on flammability or explosive limits   Flammability limit - upper (%): No data available.   Flammability limit - lower (%): No data available.   Explosive limit - lower (%): No data available.   Explosive limit - lower (%): No data available.   Vapor pressure: No data available.   Vapor density: 1.2   Solubility (ies) 1.2   Solubility in water: Practically Insoluble   Solubility (other): No data available.   Partition coefficient (n-octanol/water): No data available.	Color:	Gray
pH:No data available.Melting point/freezing point:No data available.Initial boiling point and boiling range:> 121 °C > 250 °FFlash Point:39 °C 103 °F(Setaflash Closed Cup)Evaporation rate:Slower than EtherFlammability (solid, gas):NoUpper/lower limit on flammability or explosive limitsFlammability limit - upper (%):No data available.Flammability limit - lower (%):No data available.Explosive limit - lower (%):No data available.Explosive limit - lower (%):No data available.Vapor pressure:No data available.Vapor density:1.2Solubility (ies)1.2Solubility (other):No data available.Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.	Odor:	Mild petroleum/solvent
Melting point/freezing point:No data available.Initial boiling point and boiling range:> 121 °C > 250 °FFlash Point:39 °C 103 °F(Setaflash Closed Cup)Evaporation rate:Slower than EtherFlammability (solid, gas):NoUpper/lower limit on flammability or explosive limitsFlammability limit - upper (%):No data available.Flammability limit - lower (%):No data available.Explosive limit - upper (%):No data available.Explosive limit - lower (%):No data available.Explosive limit - lower (%):No data available.Vapor pressure:No data available.Vapor density:Vapors are heavier than air and may travel along the floor and in the bottom of containers.Relative density:1.2Solubility (ies)Practically InsolubleSolubility (other):No data available.Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.	Odor threshold:	No data available.
Initial boiling point and boiling range:> 121 °C > 250 °FFlash Point:39 °C 103 °F(Setaflash Closed Cup)Evaporation rate:Slower than EtherFlammability (solid, gas):NoUpper/lower limit on flammability or explosive limitsFlammability limit - upper (%):No data available.Flammability limit - lower (%):No data available.Explosive limit - upper (%):No data available.Explosive limit - lower (%):No data available.Explosive limit - lower (%):No data available.Vapor pressure:No data available.Vapor density:Vapors are heavier than air and may travel along the floor and in the bottom of containers.Relative density:1.2Solubility (ins)I.2Solubility (other):No data available.Practically InsolubleNo data available.Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.	pH:	No data available.
Flash Point: 39 °C 103 °F(Setaflash Closed Cup)   Evaporation rate: Slower than Ether   Flammability (solid, gas): No   Upper/lower limit on flammability or explosive limits Flammability limit - upper (%):   Flammability limit - upper (%): No data available.   Flammability limit - lower (%): No data available.   Explosive limit - upper (%): No data available.   Explosive limit - lower (%): No data available.   Vapor pressure: No data available.   Vapor 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: 1.2   Solubility (other): No data available.   Practically Insoluble No data available.   Partition coefficient (n-octanol/water): No data available.   Auto-ignition temperature: No data available.	Melting point/freezing point:	No data available.
Evaporation rate:Slower than EtherFlammability (solid, gas):NoUpper/lower limit on flammability or explosive limitsFlammability limit - upper (%):No data available.Flammability limit - lower (%):No data available.Explosive limit - upper (%):No data available.Explosive limit - lower (%):No data available.Explosive limit - lower (%):No data available.Vapor pressure:No data available.Vapor density:No data available.Solubility (ies)1.2Solubility in water:Practically InsolubleSolubility (other):No data available.Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.	Initial boiling point and boiling range:	> 121 °C > 250 °F
Flammability (solid, gas): No   Upper/lower limit on flammability or explosive limits   Flammability limit - upper (%): No data available.   Flammability limit - lower (%): No data available.   Explosive limit - upper (%): No data available.   Explosive limit - lower (%): No data available.   Explosive limit - lower (%): No data available.   Vapor pressure: No data available.   Vapor density: No data available.   Vapor density: 1.2   Solubility (ies) Solubility in water:   Solubility (other): No data available.   Partition coefficient (n-octanol/water): No data available.   Auto-ignition temperature: No data available.	Flash Point:	39 °C 103 °F(Setaflash Closed Cup)
Upper/lower limit on flammability or explosive limits   Flammability limit - upper (%): No data available.   Flammability limit - lower (%): No data available.   Explosive limit - upper (%): No data available.   Explosive limit - lower (%): No data available.   Explosive limit - lower (%): No data available.   Vapor pressure: No data available.   Vapor density: No data available.   Vapor density: 1.2   Solubility in water: Practically Insoluble   Solubility (other): No data available.   Partition coefficient (n-octanol/water): No data available.	Evaporation rate:	Slower than Ether
Flammability limit - upper (%):No data available.Flammability limit - lower (%):No data available.Explosive limit - upper (%):No data available.Explosive limit - lower (%):No data available.Vapor pressure:No data available.Vapor density:No data available.Vapor density:1.2Solubility (ies)Practically InsolubleSolubility (other):No data available.Vato-ignition temperature:No data available.	Flammability (solid, gas):	No
Flammability limit - lower (%):No data available.Explosive limit - upper (%):No data available.Explosive limit - lower (%):No data available.Vapor pressure:No data available.Vapor density:Vapors are heavier than air and may travel along the floor and in the bottom of containers.Relative density:1.2Solubility (ies)Practically InsolubleSolubility (other):No data available.Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.	Upper/lower limit on flammability or explosi	ve limits
Explosive limit - upper (%):No data available.Explosive limit - lower (%):No data available.Vapor pressure:No data available.Vapor density:No data available.Vapor density:1.2Solubility(ies)Practically InsolubleSolubility (other):No data available.Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.	Flammability limit - upper (%):	No data available.
Explosive limit - lower (%):No data available.Vapor pressure:No data available.Vapor density:Vapors are heavier than air and may travel along the floor and in the bottom of containers.Relative density:1.2Solubility(ies)Practically InsolubleSolubility (other):No data available.Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.	Flammability limit - lower (%):	No data available.
Vapor pressure:No data available.Vapor density:Vapors are heavier than air and may travel along the floor and in the bottom of containers.Relative density:1.2Solubility(ies)Practically InsolubleSolubility (other):No data available.Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.	Explosive limit - upper (%):	No data available.
Vapor density:Vapors are heavier than air and may travel along the floor and in the bottom of containers.Relative density:1.2Solubility(ies)Practically InsolubleSolubility (other):No data available.Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.	Explosive limit - lower (%):	No data available.
in the bottom of containers.   Relative density: 1.2   Solubility(ies) Practically Insoluble   Solubility (other): No data available.   Partition coefficient (n-octanol/water): No data available.   Auto-ignition temperature: No data available.	Vapor pressure:	No data available.
Solubility(ies) Practically Insoluble   Solubility in water: Practically Insoluble   Solubility (other): No data available.   Partition coefficient (n-octanol/water): No data available.   Auto-ignition temperature: No data available.	Vapor density:	
Solubility in water:Practically InsolubleSolubility (other):No data available.Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.	Relative density:	1.2
Solubility (other):No data available.Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.	Solubility(ies)	
Partition coefficient (n-octanol/water): No data available.   Auto-ignition temperature: No data available.	Solubility in water:	Practically Insoluble
Auto-ignition temperature: No data available.	Solubility (other):	No data available.
	Partition coefficient (n-octanol/water):	No data available.
Decomposition temperature: No data available.	Auto-ignition temperature:	No data available.
	Decomposition temperature:	No data available.
Viscosity: 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:	Alcohols. Amines. Strong acids. 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 Inhalation: In high

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.
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Symptoms related to the physica	I, chemical and toxicological characteristics
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.
Information on toxicological effect	cts
Acute toxicity (list all possible	routes of exposure)
Oral Product:	ATEmix: 21,314.81 mg/kg
Dermal Product:	ATEmix: 23,439.02 mg/kg
Inhalation Product:	ATEmix: 2.49 mg/l
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product: Specified substance(s):	No data available.



Aromatic petroleum distillates	in vivo (Rabbit): Irritating Experimental result, Key study
1,2,4-Trimethylbenzene	in vivo (Rabbit): Irritating Read-across from supporting substance (structural analogue or surrogate), Key study
Xylene	in vivo (Rabbit): Moderate irritant Experimental result, Weight of Evidence study
Titanium dioxide	in vivo (Rabbit): Not irritant Experimental result, Supporting study
Aluminum	in vivo (Rabbit): Not classified as an Irritant Read-across from supporting substance (structural analogue or surrogate), Supporting study
Hydrotreated heavy naphtha	in vivo (Rabbit): Study design not appropriate to classify skin irritation. Experimental result, Supporting study
1,3,5-Trimethylbenzene	in vivo (Rabbit): Irritating Experimental result, Key study
4,4'-Methylene bis(phenylisocyanate)	in vivo (Rabbit): Irritating Read-across based on grouping of substances (category approach), Key study
Cumene	in vivo (Rabbit): Not irritant Experimental result, Key study
Aluminum oxide	in vivo (Rabbit): Not irritant Experimental result, Key study
2,4-Toluene diisocyanate	in vivo (Rabbit): Moderately irritating Experimental result, Supporting study
Dibutyl tin dilaurate	In vitro (Human, in vitro reconstituted epidermis model): Not irritant Experimental result, Supporting study
s Eye Damage/Eye Irritati	on

# Serious Eye Damage/Ey

Product: Specified substance(s):	No data available.
Aromatic petroleum distillates	Rabbit, 24 - 72 hrs: Not irritating
1,2,4-Trimethylbenzene	Rabbit, 30 min: Not irritating
Xylene	Rabbit, 24 hrs: Moderately irritating
Titanium dioxide	Rabbit, 24 hrs: Not irritating
Aluminum	Rabbit, 24 hrs: Not irritating
Hydrotreated heavy naphtha	Rabbit, 24 - 72 hrs: Not irritating



	Ethylbenzene	Rabbit, 7 d: Slightly irritating
	1,3,5-Trimethylbenzene	Rabbit, 30 min: Not irritating
	Cumene	Rabbit, 24 hrs: Not irritating
	Aluminum oxide	Rabbit, 24 hrs: Not irritating
	2,4-Toluene diisocyanate	Rabbit, 24 - 72 hrs: Category 2
	Dibutyl tin dilaurate	Rabbit, 24 hrs: Highly irritating
	atory or Skin Sensitizatio oduct:	n May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause sensitization by inhalation.
Carcinogenicity Product:		No data available.
IARC M	onographs on the Evalua	ation of Carcinogenic Risks to Humans:
	Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.
	Ethylbenzene	Overall evaluation: Possibly carcinogenic to humans.
	Cumene	Overall evaluation: Possibly carcinogenic to humans.
	Crystalline Silica (Quartz)/ Silica	Overall evaluation: Carcinogenic to humans.

2,4-Toluene	Overall evaluation: Possibly carcinogenic to humans.
diisocyanate	

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

Cumene	U	Reasonably Anticipated to be a Human Carcinogen.
Crystalline	Silica	Known To Be Human Carcinogen.
(Quartz)/	Silica	
Sand		
2,4-Toluene		Reasonably Anticipated to be a Human Carcinogen.
diisocyanate		

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

No carcinogenic components identified

Sand



#### 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: Specified substance(s):	No data available.	
Cumene	Inhalation - vapor: Category 3 with respiratory tract irritation.	
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): 1,2,4-Trimethylbenzene	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 7.19 - 8.28 mg/l Mortality
Xylene	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 13.41 mg/l Mortality
Aluminum	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 0.12 mg/l Mortality
Ethylbenzene	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 4.2 mg/l Mortality



Cumene	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 6.04 - 6.61 mg/l
Gumono	Mortality
2,4-Toluene diisocyanate	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 108.8 - 240.4 mg/l Mortality
Dibutyl tin dilaurate	LC 50 (Ide, silver or golden orfe (Leuciscus idus), 48 h): 2 mg/l Mortality
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Titanium dioxide	EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication
Ethylbenzene	EC 50 (Water flea (Daphnia magna), 48 h): 1.37 - 4.4 mg/l Intoxication
Trimethyl benzene (mixed isomers)	LC 50 (Daggerblade grass shrimp (Palaemonetes pugio), 24 h): 7 mg/l Mortality
Cumene	LC 50 (Water flea (Daphnia magna), 48 h): 7.9 - 45.1 mg/l Mortality
Dibutyl tin dilaurate	EC 50 (Water flea (Daphnia magna), 24 h): 0.66 mg/l Intoxication
Chronic hazards to the aquati	c environment:
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
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 / w Product:	vater (log Kow) No data available.
Specified substance(s): Xylene	Log Kow: 3.12 - 3.20
Ethylbenzene	Log Kow: 3.15
Cumene	Log Kow: 3.66
Dibutyl tin dilaurate	Log Kow: 3.12
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	
TRO	

#### TDG:

Not Regulated

# CFR / DOT:

Not Regulated

# 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)

Chemical Identity	<b>Reportable quantity</b>	
2,4-Toluene diisocyanate	De minimis concentration:	TSCA 5(a)(2)% One-Time Export Notification
	only.	

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

Chemical Identity	OSHA hazard(s)
Benzene	Blood
	respiratory tract irritation
	Central nervous system
	Flammability
	Cancer
	Skin
	Aspiration
	Eye

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

Chemical Identity	<b>Reportable quantity</b>
Xylene	100 lbs.
Ethylbenzene	1000 lbs.
4,4'-Methylene	5000 lbs.
bis(phenylisocyanate)	
Cumene	5000 lbs.
2,4-Toluene diisocyanate	100 lbs.
Toluene	1000 lbs.
Toluene-2,6-Diisocyanate	100 lbs.
Naphthalene	100 lbs.
Benzene	10 lbs.

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

#### Hazard categories

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

#### SARA 302 Extremely Hazardous Substance

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



#### SARA 304 Emergency Release Notification Chemical Identity Reportable quantity

Chemical Identity	Reportable qu
Xylene	100 lbs.
Ethylbenzene	1000 lbs.
4,4'-Methylene	5000 lbs.
bis(phenylisocyanate)	
Cumene	5000 lbs.
Polymethylene	
polyphenyl isocyanate	
2,4-Toluene diisocyanate	100 lbs.
Toluene	1000 lbs.
Toluene-2,6-Diisocyanate	100 lbs.
Naphthalene	100 lbs.
Benzene	10 lbs.

# SARA 311/312 Hazardous Chemical

Chamical Identity	Threshold Planning Overtity
Chemical Identity	Threshold Planning Quantity
2,4-Toluene diisocyanate	500lbs
Toluene-2,6-Diisocyanate	100lbs
Calcium Carbonate	10000 lbs
(Limestone)	
Aromatic petroleum	10000 lbs
distillates	
1,2,4-Trimethylbenzene	10000 lbs
Xylene	10000 lbs
Titanium dioxide	10000 lbs
Aluminum	10000 lbs
Hydrotreated heavy	10000 lbs
naphtha	
Ethylbenzene	10000 lbs
1,3,5-Trimethylbenzene	10000 lbs
4,4'-Methylene	10000 lbs
bis(phenylisocyanate)	10000 103
	10000 lba
Trimethyl benzene (mixed	10000 lbs
isomers)	10000 lb -
Cumene	10000 lbs
Aluminum oxide	10000 lbs
Polymethylene polyphenyl	10000 lbs
isocyanate	
Crystalline Silica (Quartz)/	10000 lbs
Silica Sand	
Dibutyl tin dilaurate	10000 lbs
-	

#### SARA 313 (TRI Reporting) <u>Chemical Identity</u> 1,2,4-Trimethylbenzene Xylene Aluminum Ethylbenzene

2,4-Toluene diisocyanate

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



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

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**

Calcium Carbonate (Limestone) 1,2,4-Trimethylbenzene Xylene Titanium dioxide Aluminum Ethylbenzene 1,3,5-Trimethylbenzene Crystalline Silica (Quartz)/ Silica Sand 2,4-Toluene diisocyanate

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

# **Chemical Identity**

Calcium Carbonate (Limestone) 1,2,4-Trimethylbenzene Xylene Titanium dioxide Aluminum Ethylbenzene 1,3,5-Trimethylbenzene Crystalline Silica (Quartz)/ Silica Sand 2,4-Toluene diisocyanate Toluene-2,6-Diisocyanate

#### US. Pennsylvania RTK - Hazardous Substances

#### Chemical Identity

Calcium Carbonate (Limestone) 1,2,4-Trimethylbenzene Xylene Titanium dioxide Aluminum Hydrotreated heavy naphtha Ethylbenzene 1,3,5-Trimethylbenzene 2,4-Toluene diisocyanate



#### US. Rhode Island RTK

#### **Chemical Identity**

Calcium Carbonate (Limestone) 1,2,4-Trimethylbenzene Xylene Titanium dioxide Aluminum Ethylbenzene 1,3,5-Trimethylbenzene

#### International regulations

#### **Montreal protocol**

Not applicable

## Stockholm convention

Not applicable

#### Rotterdam convention

Not applicable

## Kyoto protocol

Not applicable

#### VOC:

Regulatory VOC (less water and	:	254 g/l
exempt solvent)		
VOC Method 310	:	21.17 %



Inventory Status: Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
Canada DSL Inventory List:	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.
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:	02/05/2019
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.