

Version: 2.0 Revision Date: 07/07/2016

SAFETY DATA SHEET

1. Identification

Material name: VULKEM 45 SSL GRAY QT CTG Material: 445712A 333

Recommended use and restriction on use

Recommended use: Sealant 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

Health Hazards	
Respiratory sensitizer	Category 1
Skin sensitizer	Category 1
Carcinogenicity	Category 1A
Unknown toxicity - Health	
Acute toxicity, oral	57.3 %
Acute toxicity, dermal	62.57 %
Acute toxicity, inhalation, vapor	99.85 %
Acute toxicity, inhalation, dust or mist	92.52 %
Environmental Hazards	
Acute hazards to the aquatic environment	Category 3
Unknown toxicity - Environment	
Acute hazards to the aquatic environment	89.68 %
Chronic hazards to the aquatic environment	100 %

Label Elements

Hazard Symbol:





Signal Word:	Danger
Hazard Statement:	May cause allergy or asthma symptoms or breathing difficulties 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. [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.
Response:	If inhaled: If breathing is difficult, 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. If exposed or concerned: Get medical advice/attention. 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%
Polyvinyl chloride	9002-86-2	15 - 40%
Petroleum distillates	64742-47-8	5 - 10%
Titanium dioxide	13463-67-7	1 - 5%
Calcium oxide	1305-78-8	1 - 5%
Xylene	1330-20-7	1 - 5%
Isophorone Diisocyanate	4098-71-9	0.1 - 1%
Ethylbenzene	100-41-4	0.1 - 1%
Hydrotreated heavy naphthenic distillate	64742-52-5	0.1 - 1%
Nonane	111-84-2	0.1 - 1%
Aluminum oxide	1344-28-1	0.1 - 1%

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



4. First-aid measures	
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/effect	ts, acute and delayed
Symptoms:	May cause skin and eye irritation.
Indication of immediate medical a	ttention 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) e	xtinguishing 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 an	d 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 measure	S



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.
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. 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.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	type	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)
Polyvinyl chloride - Respirable fraction.	TWA		1 mg/m3	US. ACGIH Threshold Limit Values (2011)
Polyvinyl chloride - as vinyl chloride monomer	TWA	1 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050) (02 2006)
	STEL	5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050) (02 2006)
	OSHA_A CT	0.5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050) (02 2006)
Polyvinyl chloride - Respirable fraction.	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)



				(02 2006)
Polyvinyl chloride -	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air
Total dust.			-	Contaminants (29 CFR 1910.1000)
				(02 2006)
	TWA		50 millions	US. OSHA Table Z-3 (29 CFR
	10070		of particles	1910.1000) (2000)
			per cubic	
			foot of air	
Polyvinyl chloride -	TWA		15 millions	US. OSHA Table Z-3 (29 CFR
Respirable fraction.			of particles	1910.1000) (2000)
			per cubic	
			foot of air	
Polyvinyl chloride -	TWA		15 mg/m3	US. OSHA Table Z-3 (29 CFR
Total dust.			0	1910.1000) (2000)
Polyvinyl chloride -	TWA		5 mg/m3	US. OSHA Table Z-3 (29 CFR
Respirable fraction.			5	1910.1000) (2000)
Petroleum distillates -	TWA		200	US. ACGIH Threshold Limit Values
Non-aerosol as total			mg/m3	(2011)
hydrocarbon vapor				(====)
	T\A/A		200	US. ACGIH Threshold Limit Values
	TWA		mg/m3	(2011)
Titanium dioxide	TWA		10 mg/m3	US. ACGIH Threshold Limit Values
			re mg/me	(2011)
Titanium dioxide - Total	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			io ing/ino	Contaminants (29 CFR 1910.1000)
				(02 2006)
Calcium oxide	TWA		2 mg/m3	US. ACGIH Threshold Limit Values
	10070		2 mg/mo	(2011)
	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air
	PEL		o mg/mo	Contaminants (29 CFR 1910.1000)
				(02 2006)
Xylene	STEL	150 ppm	655	US. NIOSH: Pocket Guide to
, ijielie	•••==		mg/m3	Chemical Hazards (2010)
	REL	100 ppm	435	US. NIOSH: Pocket Guide to
	REL		mg/m3	Chemical Hazards (2010)
	STEL	150 ppm	655	US. NIOSH: Pocket Guide to
	SIEL	ice ppin	mg/m3	Chemical Hazards (2010)
	DEI	100 ppm	435	US. NIOSH: Pocket Guide to
	REL	i oo ppin	mg/m3	Chemical Hazards (2010)
	отгі	150 ppm	655	US. NIOSH: Pocket Guide to
	STEL	ioo ppin	mg/m3	Chemical Hazards (2010)
	DEL	100 ppm	435	US. NIOSH: Pocket Guide to
	REL	i oo ppin	mg/m3	Chemical Hazards (2010)
	OTEL	150 ppm	655	US. OSHA Table Z-1-A (29 CFR
	STEL	100 ppm	mg/m3	1910.1000) (1989)
	734/4	100 ppm	435	US. OSHA Table Z-1-A (29 CFR
	TWA	100 ppm	mg/m3	1910.1000) (1989)
		100 ppm	435	US. Tennessee. OELs. Occupational
	TWA	100 ppm	435 mg/m3	Exposure Limits, Table Z1A (06 2008)
	0751	150 ppm	655	US. Tennessee. OELs. Occupational
	STEL	130 ppm		Exposure Limits, Table Z1A (06 2008)
			mg/m3 350 µg/m3	US. Texas. Effects Screening Levels
	ST ESL		550 µg/m3	
				(Texas Commission on
			00 nnh	Environmental Quality) (07 2011)
	ST ESL		80 ppb	US. Texas. Effects Screening Levels



				(Texas Commission on
				Environmental Quality) (07 2011)
			42 ppb	US. Texas. Effects Screening Levels
	AN ESL		42 ppb	(Texas Commission on
			100	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	US. California Code of Regulations,
			mg/m3	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	100 ppm	435	US. California Code of Regulations,
	PEL		mg/m3	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	US. OSHA Table Z-1 Limits for Air
			mg/m3	Contaminants (29 CFR 1910.1000)
				(02 2006)
Isophorone	TWA	0.005 ppm		US. ACGIH Threshold Limit Values
Diisocyanate				(2011)
Ethylbenzene	TWA	20 ppm		US. ACGIH Threshold Limit Values
				(2011)
	PEL	100 ppm	435	US. OSHA Table Z-1 Limits for Air
			mg/m3	Contaminants (29 CFR 1910.1000)
				(02 2006)
Hydrotreated heavy	TWA		5 mg/m3	US. ACGIH Threshold Limit Values
naphthenic distillate -			-	(03 2014)
Inhalable fraction.				
Hydrotreated heavy	PEL	500 ppm	2,000	US. OSHA Table Z-1 Limits for Air
naphthenic distillate			mg/m3	Contaminants (29 CFR 1910.1000)
			C C	(02 2006)
Hydrotreated heavy	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air
naphthenic distillate -			Ũ	Contaminants (29 CFR 1910.1000)
Mist.				(02 2006)
Nonane	TWA	200 ppm		US. ACGIH Threshold Limit Values
				(02 2012)
Aluminum oxide -	TWA		1 mg/m3	US. ACGIH Threshold Limit Values
Respirable fraction.	-		3	(2011)
	DEI		5 mg/m3	US. OSHA Table Z-1 Limits for Air
	PEL		5 g ,	Contaminants (29 CFR 1910.1000)
				(02 2006)
Aluminum oxide - Total	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			. eg/o	Contaminants (29 CFR 1910.1000)
				(02 2006)
				(02 2000)



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)
Polyvinyl chloride - Respirable.	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)
Polyvinyl chloride - Respirable fraction.	TWAEV	1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Polyvinyl chloride - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Petroleum distillates - 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) (07 2007)
Petroleum distillates	TWAEV	525 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Petroleum distillates - Non-aerosol as total hydrocarbon vapor	TWAEV	200 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	TWAEV	200 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)



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)
Calcium oxide	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)
Calcium oxide	TWAEV		2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Calcium oxide	TWA		2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
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. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	150 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Xylene	TWAEV	100 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	150 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)



Xylene	TWA	100 ppm	434 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	150 ppm	651 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Isophorone Diisocyanate	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)
Isophorone Diisocyanate	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)
Isophorone Diisocyanate	TWA	0.005 ppm	0.045 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Ethylbenzene	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Ethylbenzene	STEL	125 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	TWAEV	100 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Ethylbenzene	TWA	100 ppm	434 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	125 ppm	543 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Hydrotreated heavy naphthenic distillate - Mist.	TWA		0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
	TWA		1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational



			Health and Safety Regulation 296/97, as amended) (05 2013)
Hydrotreated heavy naphthenic distillate - 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)
Hydrotreated heavy naphthenic distillate - 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)

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)

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:	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:	Gray
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:	> 93 °C > 199 °F(Setaflash Closed Cup)
Evaporation rate:	Slower than n-Butyl Acetate
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosi	ve 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.
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:	1.32
Solubility(ies)	
Solubility in water:	Insoluble 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.
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 exp Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	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 effe	cts
Acute toxicity (list all possible	routes of exposure)
Oral Product:	ATEmix: 163,089.88 mg/kg
Dermal Product:	ATEmix: 11,084.4 mg/kg
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Specified substance(s): Petroleum distillates	in vivo (Rabbit): Experimental result, Key study
Titanium dioxide	in vivo (Rabbit): Experimental result, Supporting study
Calcium oxide	in vivo (Rabbit): Read-across from supporting substance (structural analogue or surrogate), Key study
Xylene	in vivo (Rabbit): Experimental result, Weight of Evidence study



	Hydrotreated heavy naphthenic distillate	in vivo (Rabbit): Experimental result, Key study
	Nonane	in vivo (Rabbit): Read-across based on grouping of substances (category approach), Key study
	Aluminum oxide	in vivo (Rabbit): Experimental result, Key study
	s Eye Damage/Eye Irritati	
Р	roduct:	No data available.
S	pecified substance(s): Petroleum distillates	in vivo (Rabbit, 24 - 72 hrs): Not irritating
	Titanium dioxide	in vivo (Rabbit, 24 hrs): Not irritating
	Calcium oxide	in vivo (Rabbit, 24 hrs): Category 1 in vivo (Rabbit, 1 hrs): Irritating
	Xylene	in vivo (Rabbit, 24 hrs): Moderately irritating
	lsophorone Diisocyanate	in vivo (Rabbit, 24 - 72 hrs): Category 1
	Ethylbenzene	in vivo (Rabbit, 7 d): Slightly irritating
	Hydrotreated heavy naphthenic distillate	in vivo (Rabbit, 24 hrs): Not irritating
	Nonane	in vivo (Rabbit, 24 - 72 hrs): Not irritating
	Aluminum oxide	in vivo (Rabbit, 24 hrs): Not irritating
	atory or Skin Sensitizatio roduct:	n May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause sensitization by inhalation.
	ogenicity roduct:	No data available.



IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.
Ethylbenzene	Overall evaluation: Possibly carcinogenic to humans.
Hydrotreated heavy naphthenic distillate	Overall evaluation: Not classifiable as to carcinogenicity to humans. Overall evaluation: Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens: Hydrotreated heavy naphthenic distillate

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

Polyvinyl chloride	Cancer	
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 - Product:	Repeated Exposure 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): Petroleum distillates	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 2.9 mg/l Mortality
Xylene	LC 50 (Bryconamericus iheringii, 96 h): 9.94 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Oncorhynchus mykiss, 96 h): 8.05 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Bryconamericus iheringii, 96 h): 6.9 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Oncorhynchus mykiss, 96 h): 7.6 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Oncorhynchus mykiss, 96 h): 7.6 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Oncorhynchus mykiss, 96 h): 2.6 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Ethylbenzene	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 9.1 - 15.6 mg/l Mortality
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Xylene	EC 50 (Daphnia magna, 48 h): 3.82 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study EC 50 (Ceriodaphnia dubia, 48 h): > 3.4 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study IC 50 (Daphnia magna, 24 h): 4.7 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study IC 50 (Daphnia magna, 24 h): 3.6 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study IC 50 (Daphnia magna, 24 h): 3.6 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study IC 50 (Daphnia magna, 24 h): 2.2 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study
Ethylbenzene	LC 50 (Water flea (Daphnia magna), 24 h): 190 mg/l Mortality
Chronic hazards to the aquation	c environment:
Fish Product:	No data available.
Specified substance(s): Petroleum distillates	NOAEL (Oncorhynchus mykiss, 28 d): 0.098 mg/l QSAR QSAR, Key study
Titanium dioxide	LC 50 (Oncorhynchus mykiss, 28 d): 7.31 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study
Calcium oxide	LC 50 (7 d): 3,206.2 mg/l Read-across based on grouping of substances (category approach), Key study NOAEL (Oncorhynchus mykiss, 60 d): 307 mg/l Read-across based on grouping of substances (category approach), Key study LC 50 (Hypophthalmichthys molitrix, 16 d): 75 - 450 mg/l Experimental result, Key study LOAEL (Cyprinodon variegatus, 10 d): 697 mg/l Read-across based on grouping of substances (category approach), Key study LC 50 (7 d): 4,408.5 mg/l Read-across based on grouping of substances (category approach), Key study



Xylene	NOAEL (Oncorhynchus mykiss, 56 d): > 1.3 mg/l Experimental result, Key study	
Hydrotreated heavy naphthenic distillate	NOAEL (Oncorhynchus mykiss, 14 d): >= 1,000 mg/l QSAR QSAR, Supporting study	
Nonane	NOAEL (Oncorhynchus mykiss, 28 d): 0.252 mg/l QSAR QSAR, Key study	
Aluminum oxide	EC 10 (Pimephales promelas, 7 d): 2.729 mg/l Experimental result, Weight of Evidence study	
Aquatic Invertebrates Product:	No data available.	
Specified substance(s): Xylene	NOAEL (Ceriodaphnia dubia, 7 d): 1.17 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Daphnia magna, 21 d): 1.57 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LOAEL (Daphnia magna, 21 d): 3.16 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study EC 10 (Daphnia magna, 21 d): 1.91 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study EC 10 (Daphnia magna, 21 d): 1.91 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study EC 50 (Daphnia magna, 21 d): 2.9 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study	
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): Xylene	Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 5.5 - < 12.2 Aquatic sediment Experimental result, Key study Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 8.1 - < 25.9 Aquatic sediment Experimental result, Key study Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 7.2 - < 24.2 Aquatic sediment Experimental result, Key study Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 7.4 - < 18.5 Aquatic sediment Experimental result, Key study Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 7.7 - < 21.2 Aquatic sediment Experimental result, Key study	



Partition Coefficient n-octanol / water (log Kow) Product: No data available.		
Specified substance(s): Xylene	Log Kow: 3.12 - 3.20	
Ethylbenzene	Log Kow: 3.15	
Nonane	Log Kow: 5.46	
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.	
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 Identity Polyvinyl chloride

OSHA hazard(s)

Blood Liver Cancer Flammability Central nervous system

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Xylene	100 lbs.
Ethylbenzene	1000 lbs.
Nonane	100 lbs.
Toluene	1000 lbs.
Methanol	5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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

SARA 302 Extremely Hazardous Substance

	<u>Reportable</u>	
Chemical Identity	quantity	Threshold Planning Quantity
Isophorone Diisocyanate	500 lbs.	500 lbs.

SARA 304 Emergency Release Notification

Chemical Ident	ity	Reportable quantity
Xylene		100 lbs.
Isophorone Diis	ocyanate	
Ethylbenzene		1000 lbs.
Nonane		100 lbs.
Diisodecyl phtha	alate	
Toluene		1000 lbs.
Diisodecyl	phthalate	
(mixed Is)		
Methanol		5000 lbs.



SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Isophorone Diisocyanate	500lbs
Calcium Carbonate	500 lbs
(Limestone)	
Polyvinyl chloride	500 lbs
Petroleum distillates	500 lbs
Titanium dioxide	500 lbs
Calcium oxide	500 lbs
Xylene	500 lbs
Ethylbenzene	500 lbs
Hydrotreated heavy	500 lbs
naphthenic distillate	
Nonane	500 lbs
Aluminum oxide	500 lbs

SARA 313 (TRI Reporting)

Chemical Identity

Xylene Ethylbenzene

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

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Calcium Carbonate (Limestone) Polyvinyl chloride Petroleum distillates Titanium dioxide Calcium oxide **Xylene**

US. Massachusetts RTK - Substance List

Chemical Identity

Calcium Carbonate (Limestone) Petroleum distillates Titanium dioxide Calcium oxide **Xylene** Isophorone Diisocyanate Crystalline Silica (Quartz)/ Silica Sand



Version: 2.0 Revision Date: 07/07/2016

US. Pennsylvania RTK - Hazardous <u>Chemical Identity</u> Calcium Carbonate (Limestone) Petroleum distillates Titanium dioxide Calcium oxide Xylene US. Rhode Island RTK <u>Chemical Identity</u> Xylene	s Substance	s	
Other Regulations:			
Regulatory VOC (less water	109 g/l		
and exempt solvent): VOC Method 310:	8.23 %		
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.	
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	
00000016056			20



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:	07/07/2016
Version #:	2.0
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.