



# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

**Product identifier:** COLD PIPE INSULATION - SW-620

**Other means of identification**

**SDS number:** RE1000044238

**Recommended restrictions**

**Recommended use:** Coating

**Restrictions on use:** Not known.

**Manufacturer Information**

**Manufacturer**

**Company Name:** Sprayway, Inc.  
**Address:** 1000 INTEGRAM DR.  
Pacific, MO 63069  
US  
**Telephone:** 1-630-628-3000

**Emergency telephone number:** 1-866-836-8855

## 2. Hazard(s) identification

### Hazard Classification

**Physical Hazards**

Flammable aerosol Category 1

**Health Hazards**

Skin Corrosion/Irritation Category 2  
Serious Eye Damage/Eye Irritation Category 2A  
Germ Cell Mutagenicity Category 2  
Carcinogenicity Category 1A  
Toxic to reproduction Category 2  
Specific Target Organ Toxicity -  
Single Exposure Category 3  
(Narcotic effect.)  
Specific Target Organ Toxicity -  
Repeated Exposure Category 2

**Environmental Hazards**

Acute hazards to the aquatic  
environment Category 3

### Label Elements

**Hazard Symbol:**





<b>Signal Word:</b>	Danger
<b>Hazard Statement:</b>	Extremely flammable aerosol. Causes skin irritation. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.
<b>Precautionary Statements</b>	
<b>Prevention:</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. 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. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.
<b>Response:</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing.
<b>Storage:</b>	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.
<b>Disposal:</b>	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.
<b>Hazard(s) not otherwise classified (HNOC):</b>	None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Ethene, 1,1,2-trichloro-	79-01-6	25 - <50%
Butane	106-97-8	20 - <50%
Propane	74-98-6	10 - <20%
Octadecanoic acid	57-11-4	1 - <5%
Titanium oxide (TiO <sub>2</sub> )	13463-67-7	1 - <5%
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6	1 - <5%
Benzene, methyl-	108-88-3	1 - <3%

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

The exact concentration has been withheld as a trade secret.



#### 4. First-aid measures

##### Description of necessary first-aid measures

<b>Inhalation:</b>	Move to fresh air.
<b>Skin Contact:</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.
<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
<b>Ingestion:</b>	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
<b>Personal Protection for First-aid Responders:</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

##### Most important symptoms/effects, acute and delayed

<b>Symptoms:</b>	No data available.
<b>Hazards:</b>	No data available.

##### Indication of immediate medical attention and special treatment needed

<b>Treatment:</b>	Symptoms may be delayed.
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#### 5. Fire-fighting measures

<b>General Fire Hazards:</b>	Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
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##### Suitable (and unsuitable) extinguishing media

<b>Suitable extinguishing media:</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Unsuitable extinguishing media:</b>	Do not use water jet as an extinguisher, as this will spread the fire.

<b>Specific hazards arising from the chemical:</b>	Vapors may travel considerable distance to a source of ignition and flash back.
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##### Special protective equipment and precautions for firefighters

<b>Special fire fighting procedures:</b>	No data available.
<b>Special protective equipment for fire-fighters:</b>	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

<b>Personal precautions, protective equipment and emergency procedures:</b>	Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
<b>Accidental release measures:</b>	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.
<b>Methods and material for containment and cleaning up:</b>	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.
<b>Environmental Precautions:</b>	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

## 7. Handling and storage

### Handling

<b>Technical measures (e.g. Local and general ventilation):</b>	No data available.
<b>Safe handling advice:</b>	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin.
<b>Contact avoidance measures:</b>	No data available.

### Storage

<b>Safe storage conditions:</b>	Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 1
<b>Safe packaging materials:</b>	No data available.
<b>Storage Temperature:</b>	No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Ethene, 1,1,2-trichloro-	TWA	10 ppm	US. ACGIH Threshold Limit Values, as amended
	STEL	200 ppm    1,080 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	25 ppm	US. ACGIH Threshold Limit Values, as amended
	TWA	100 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	MAX. CONC	300 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended



	TWA	50 ppm	270 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	REL	25 ppm		US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	Ceil_ Time	2 ppm		US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Butane	REL	800 ppm	1,900 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	800 ppm	1,900 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Propane	REL	1,000 ppm	1,800 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	1,000 ppm	1,800 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	1,000 ppm	1,800 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Octadecanoic acid - Respirable fraction.	TWA		3 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended
Octadecanoic acid - Inhalable fraction.	TWA		10 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended
Titanium oxide (TiO <sub>2</sub> )	TWA		10 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended
Titanium oxide (TiO <sub>2</sub> ) - Total dust.	PEL		15 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA		10 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Titanium oxide (TiO <sub>2</sub> ) - Respirable fraction.	TWA		5 mg/m <sup>3</sup>	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA		15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Titanium oxide (TiO <sub>2</sub> ) - Total dust.	TWA		15 mg/m <sup>3</sup>	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA		50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) - Respirable fraction.	TWA		2 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) - Respirable.	REL		2 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) - Respirable dust.	TWA		2 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	TWA		20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) - Respirable.	TWA		2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA		0.1 mg/m <sup>3</sup>	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Benzene, methyl-	STEL	150 ppm	560 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	100 ppm	375 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	100 ppm	375 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	MAX. CONC	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	STEL	150 ppm	560 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Silica	TWA		6 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA		20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA		0.8 mg/m <sup>3</sup>	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended



	REL	6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Aluminum hydroxide (Al(OH)3) - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values, as amended
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Aluminum hydroxide (Al(OH)3) - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Aluminum hydroxide (Al(OH)3) - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Aluminum hydroxide (Al(OH)3) - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Aluminum hydroxide (Al(OH)3) - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Aluminum hydroxide (Al(OH)3) - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Oxirane, 2-(chloromethyl)-	TWA	2 ppm 8 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	5 ppm 19 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	0.5 ppm	US. ACGIH Threshold Limit Values, as amended
Zirconium oxide (ZrO2) - as Zr	STEL	10 mg/m3	US. ACGIH Threshold Limit Values, as amended
	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended
	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Dolomite (CaMg(CO3)2) - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Dolomite (CaMg(CO3)2) - Inhalable particles.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended
Dolomite (CaMg(CO3)2) - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Dolomite (CaMg(CO3)2) - Respirable particles.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as amended
Dolomite (CaMg(CO3)2) - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Carbonic acid, magnesium salt (1:1) - Total	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Carbonic acid, magnesium salt (1:1) - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Carbonic acid, magnesium salt (1:1) - Respirable.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Carbonic acid, magnesium salt (1:1) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Carbonic acid, magnesium salt (1:1) - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Proprietary	TWA	20 ppm	US. ACGIH Threshold Limit Values, as amended
Benzene	REL	0.1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards, as amended



	TWA	1 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	25 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	TWA	0.5 ppm	US. ACGIH Threshold Limit Values, as amended
	STEL	2.5 ppm	US. ACGIH Threshold Limit Values, as amended
	STEL	5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	OSHA ACT	0.5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	TWA	10 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	MAX. CONC	50 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	STEL	5 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	1 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	STEL	1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards, as amended

### Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Ethene, 1,1,2-trichloro- (Trichloroacetic acid: Sampling time: End of shift at end of work week.)	15 mg/l (Urine)	ACGIH BEL
Ethene, 1,1,2-trichloro- (trichloroethylene: Sampling time: End of shift at end of work week.)	(Blood)	ACGIH BEL
	(End-exhaled air)	ACGIH BEL
Ethene, 1,1,2-trichloro- (Trichloroethanol, without hydrolysis: Sampling time: End of shift at end of work week.)	0.5 mg/l (Blood)	ACGIH BEL
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL
Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 µg/g (Creatinine in urine)	ACGIH BEL
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 µg/g (Creatinine in urine)	ACGIH BEL

### Exposure guidelines

Oxirane, 2-(chloromethyl)-	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.
Benzene	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.

**Appropriate Engineering Controls** No data available.

### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

### Skin Protection

**Hand Protection:** No data available.

**Skin and Body Protection:** Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:** Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin.



## 9. Physical and chemical properties

### Appearance

Physical state:	liquid
Form:	Spray Aerosol
Color:	No data available.
Odor:	No data available.
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	Estimated 90 °C
Flash Point:	Estimated -104.4 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limit - upper (%):	Estimated 9.5 %(V)
Explosive limit - lower (%):	Estimated 1.9 %(V)
Vapor pressure:	3,102 - 4,481 hPa (20 °C)
Vapor density (air=1):	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	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:	No data available.
Hazardous Decomposition Products:	No data available.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.





**Eye contact:** No data available.

**Ingestion:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

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

**Dermal**

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

**Inhalation**

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

**Repeated dose toxicity**

**Product:** No data available.

**Components:**

Ethene, 1,1,2-trichloro-	NOAEL (Rat(Male), Inhalation): 100 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Male), Oral, 52 Weeks): 50 mg/kg Oral Experimental result, Key study
Butane	LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
Propane	NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
Octadecanoic acid	NOAEL (Rat(Male), Oral, 18 Weeks): 10,000 mg/kg Oral Read-across based on grouping of substances (category approach), Supporting study
Titanium oxide (TiO <sub>2</sub> )	NOAEL (Rat(Female, Male), Inhalation): 50 mg/m <sup>3</sup> Inhalation Experimental result, Key study NOAEL (Rat(Male), Oral, 29 d): 24,000 mg/kg Oral Experimental result, Key study
Benzene, methyl-	LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target Organ(s): Liver, Kidney) Oral Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l Inhalation Experimental result, Key study

**Skin Corrosion/Irritation**

**Product:** No data available.



**Components:**

Ethene, 1,1,2-trichloro-	Assessment Irritating.
Octadecanoic acid	in vivo (Rabbit): Not irritant
Titanium oxide (TiO <sub>2</sub> )	in vivo (Rabbit): Not irritant
Benzene, methyl-	in vivo (Rabbit): Irritating

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Components:**

Octadecanoic acid	Rabbit, 27 - 72 hrs: Not irritating
Titanium oxide (TiO <sub>2</sub> )	Rabbit, 24 - 72 hrs: Not irritating
Benzene, methyl-	Rabbit, 24 - 72 hrs: Not irritating

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Components:**

Octadecanoic acid	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Titanium oxide (TiO <sub>2</sub> )	Skin sensitization:, in vivo/in vitro (Guinea pig): Non sensitising
Benzene, methyl-	Skin sensitization:, in vivo (Guinea pig): Non sensitising

**Carcinogenicity**

**Product:** No data available.

**Components:**

Ethene, 1,1,2-trichloro-	Potential cancer hazard.
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**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

Ethene, 1,1,2-trichloro-	Overall evaluation: 1. Carcinogenic to humans.
Talc	Overall evaluation: 3. Not classifiable as to carcinogenicity to humans.
(Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	Overall evaluation: 2B. Possibly carcinogenic to humans.

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

Ethene, 1,1,2-trichloro-	Overall evaluation: 1. Carcinogenic to humans.
Talc	Overall evaluation: 3. Not classifiable as to carcinogenicity to humans.
(Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	Overall evaluation: 2B. Possibly carcinogenic to humans.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

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.

**Components:**

Benzene, methyl-	Suspected of damaging fertility or the unborn child.
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**Specific Target Organ Toxicity - Single Exposure**

**Product:** Category 3 with narcotic effects.



### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

**Components:**

Benzene, methyl- Category 2

**Target Organs**

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

### Aspiration Hazard

**Product:** No data available.

**Components:**

Benzene, methyl- May be fatal if swallowed and enters airways.

**Other effects:** No data available.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

#### Fish

**Product:** No data available.

**Components:**

Ethene, 1,1,2-trichloro- LC 50 (Pimephales promelas, 96 h): 44.1 mg/l Experimental result, Supporting study

Butane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Octadecanoic acid LC 50 (Leuciscus idus, 48 h): > 10,000 mg/l Experimental result, Key study

Titanium oxide (TiO<sub>2</sub>) LC 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l Experimental result, Weight of Evidence study

Benzene, methyl- LC 50 (Oncorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study

#### Aquatic Invertebrates

**Product:** No data available.

**Components:**

Ethene, 1,1,2-trichloro- IC 50 (Daphnia magna, 48 h): 20.8 mg/l Experimental result, Key study

Butane LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

Octadecanoic acid EC 50 (Daphnia magna, 47 h): > 32 mg/l Experimental result, Weight of Evidence study

Titanium oxide (TiO<sub>2</sub>) LC 50 (Daphnia magna, 48 h): > 100 mg/l Experimental result, Weight of Evidence study

Benzene, methyl- LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/l Mortality  
LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key study

#### Chronic hazards to the aquatic environment:

#### Fish

**Product:** No data available.



**Components:**

Ethene, 1,1,2-trichloro-	NOAEL (Jordanella floridae): 5.76 mg/l Experimental result, Key study
Benzene, methyl-	NOAEL (Oncorhynchus kisutch): 1.39 mg/l Experimental result, Key study LOAEL (Oncorhynchus kisutch): 2.77 mg/l Experimental result, Key study

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

Titanium oxide (TiO <sub>2</sub> )	NOAEL (Daphnia magna): 100 mg/l Experimental result, Supporting study
Benzene, methyl-	LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Components:**

Ethene, 1,1,2-trichloro-	19 % (28 d) Detected in water. Experimental result, Key study
Butane	100 % (385.5 h) Detected in water. Experimental result, Key study
Propane	100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study
Octadecanoic acid	93.7 % (28 d) Sediment Experimental result, Supporting study
Benzene, methyl-	100 % (14 d) Detected in water. Experimental result, Weight of Evidence study 86 % Detected in water. Experimental result, Weight of Evidence study

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Components:**

Ethene, 1,1,2-trichloro-	Lepomis macrochirus, Bioconcentration Factor (BCF): 17 Aquatic sediment Experimental result, Key study
Octadecanoic acid	Danio rerio, Bioconcentration Factor (BCF): 238 - 288 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Key study
Titanium oxide (TiO <sub>2</sub> )	Oncorhynchus mykiss, Bioconcentration Factor (BCF): 34 - 352 Aquatic sediment Experimental result, Key study
Benzene, methyl-	Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment Experimental result, Key study

**Partition Coefficient n-octanol / water (log K<sub>ow</sub>)**

**Product:** No data available.



**Mobility in soil:** No data available.

**Components:**

Ethene, 1,1,2-trichloro-	No data available.
Butane	No data available.
Propane	No data available.
Octadecanoic acid	No data available.
Titanium oxide (TiO <sub>2</sub> )	No data available.
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	No data available.
Benzene, methyl-	No data available.

**Other adverse effects:** Harmful to aquatic organisms.

### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:** No data available.

### 14. Transport information

**DOT**

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, Flammable
Transport Hazard Class(es)	
Class:	2.1
Label(s):	–
EmS No.:	
Packing Group:	II
Special precautions for user:	Not regulated.

**IATA**

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, Flammable
Transport Hazard Class(es):	
Class:	2.1
Label(s):	–
Packing Group:	–
Special precautions for user:	Not regulated.
Other information	
Passenger and cargo aircraft:	Forbidden.
Cargo aircraft only:	Forbidden.

**IMDG**

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, Flammable
Transport Hazard Class(es)	
Class:	2
Label(s):	–
EmS No.:	
Packing Group:	–
Special precautions for user:	Not regulated.

### 15. Regulatory information

**US Federal Regulations**

**Restrictions on use:** Not known.



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

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

<u>Chemical Identity</u>	<u>OSHA hazard(s)</u>
Benzene	Flammability Cancer Aspiration Eye Blood Skin Respiratory tract irritation Central nervous system

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

<u>Chemical Identity</u>
TRICHLOROETHYLENE
TRICHLOROETHENE
UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY
RCRA HAZARDOUS WASTE NO. D001
BENZENE, METHYL- EPICHLOROHYDRIN
BENZENE

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

**Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Germ Cell Mutagenicity, Carcinogenicity, Reproductive toxicity, Specific target organ toxicity (single or repeated exposure)

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

<u>Chemical Identity</u>
Oxirane, 2-(chloromethyl)-

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

<u>Chemical Identity</u>	<u>% by weight</u>
Ethene, 1,1,2-trichloro-	0.1%
Benzene, methyl-	1.0%

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

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

**US State Regulations**

**US. California Proposition 65**

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



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

**Chemical Identity**

Ethene, 1,1,2-trichloro-  
Butane  
Propane  
Titanium oxide (TiO<sub>2</sub>)  
Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)  
Benzene, methyl-

**US. Massachusetts RTK - Substance List**

**Chemical Identity**

Ethene, 1,1,2-trichloro-  
Oxirane, 2-(chloromethyl)-

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**

Ethene, 1,1,2-trichloro-  
Butane  
Propane  
Titanium oxide (TiO<sub>2</sub>)  
Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)  
Benzene, methyl-

**US. Rhode Island RTK**

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

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable



**Inventory Status:**

Australia AICS	Not in compliance with the inventory.
Canada DSL Inventory List	Not in compliance with the inventory.
Canada NDSL Inventory	Not in compliance with the inventory.
Ontario Inventory	Not in compliance with the inventory.
China Inv. Existing Chemical Substances	Not in compliance with the inventory.
Japan (ENCS) List	Not in compliance with the inventory.
Japan ISHL Listing	Not in compliance with the inventory.
Japan Pharmacopoeia Listing	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI)	Not in compliance with the inventory.
Mexico INSQ	Not in compliance with the inventory.
New Zealand Inventory of Chemicals	Not in compliance with the inventory.
Philippines PICCS	Not in compliance with the inventory.
Taiwan Chemical Substance Inventory	Not in compliance with the inventory.
US TSCA Inventory	On or in compliance with the inventory
EINECS, ELINCS or NLP	Not in compliance with the inventory.

**16. Other information, including date of preparation or last revision**

<b>Issue Date:</b>	11/19/2020
<b>Revision Information:</b>	No data available.
<b>Version #:</b>	1.0
<b>Further Information:</b>	No data available.
<b>Disclaimer:</b>	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.