

# Coated Sheet Pile

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).  
Date of Issue: 01/24/2025 Version: 1.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Name:** Coated Sheet Pile

#### 1.2. Intended Use of the Product

Retaining Walls, Land Reclamation, Underground Structure

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

Nucor LMP Steel, Inc.  
2000 East First Street  
Maryville, MO 64468  
1-660-582-3127

#### 1.4. Emergency Telephone Number

**Emergency Number** : For Chemical Emergency Call CHEMTREC day or night  
Within USA and Canada: 1.800.424.9300  
Mexico: 1.800.681.9531  
Outside USA and Canada: 1.703.527.3887 (collect calls accepted)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US/CA Classification

Not classified.

#### 2.2. Label Elements

##### GHS-US/CA Labeling

No labeling applicable according to 29 CFR 1910.1200 and the Hazardous Products Regulations (HPR) SOR/2015-17.

#### 2.3. Other Hazards

This product is physiologically inert in its massive form. However, user-generated dust and/or fumes may pose a physiological hazard if inhaled or ingested. Avoid inhalation of metal dusts and fumes. May cause an influenza-like illness. Avoid skin and eye contact with dusts to prevent mechanical irritation. User-generated dust is easily ignited and difficult to extinguish.

#### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Manganese	Manganese, elemental Manganese metal manganese	(CAS-No.) 7439-96-5	0.2 - 2	Not classified
Chromium	Chromium metal Chromium, elemental Chromium, metal Chromium, metallic Chrome, metal Chrome CHROMIUM	(CAS-No.) 7440-47-3	0.01 - 1	Not classified
Quartz	Quartz (SiO <sub>2</sub> ) Silica, crystalline, quartz Crystalline silica, quartz .alpha.-Quartz Silica, crystalline, .alpha.- quartz QUARTZ	(CAS-No.) 14808-60-7	< 0.1	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

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	Crystalline silica in the form of quartz Quartz, silica Quartz (respirable fraction) Silica dust Silica, crystalline-.alpha.quartz Silica, .alpha.-quartz Silicon dioxide Silica, quartz Silica, crystalline Quartz (crystalline silica) Silica dust, crystalline QUARTZ POWDER Silica, crystalline (quartz)			
Silicic acid (H4SiO4), tetraethyl ester	Ethyl silicate Silane, tetraethoxy- Silicic acid, tetraethyl ester Tetraethoxysilane Tetraethyl orthosilicate Tetraethyl silicate Tetraethoxysilicon TETRAETHYL ORTHOSILICATE Ethyl ester of silicic acid	(CAS-No.) 78-10-4	< 0.1	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335
2-Heptanone	Methyl n-amyl ketone n-Amyl methyl ketone Amyl methyl ketone Heptan-2-one Methyl amyl ketone Methyl pentyl ketone Methyl n-pentyl ketone METHYL AMYL KETONE	(CAS-No.) 110-43-0	< 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 STOT SE 3, H336
Methyl ethyl ketone	Butan-2-one 2-Butanone Ethyl methyl ketone Methyl acetone MEK Butanone	(CAS-No.) 78-93-3	< 0.1	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Xylenes (o-, m-, p- isomers)	Benzene, dimethyl- Dimethylbenzene (mixed isomers) Xylene Xylene (all isomers) Xylene (mixed isomers) Xylene (o-, m-, p- isomers) Xylenes Xylenes (mixed isomers) Dimethylbenzene Xylol Benzene, dimethyl-, mixed isomers XYLENE Dimethylbenzenes Xylene isomers mixture Dimethylbenzene (2-, 3-, 4-isomers) Dimethylbenzene (mixed 2-, 3-, 4-isomers) C8 Disubstituted benzenes Xylene, mixed isomers Xylenes (meta-, ortho-, para-) Xylene (mixture), including m-xylene, o-xylene, p-xylene Xylene (o-,m-,p- isomer mixture)	(CAS-No.) 1330-20-7	< 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapor), H332 Skin Irrit. 2, H315 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

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Ethyl alcohol	Methylcarbinol Ethanol ALCOHOL Alcohol anhydrous Alcohol Grain alcohol Anhydrous ethanol	(CAS-No.) 64-17-5	< 0.1	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Silica, amorphous	Amorphous silica Silica Silica, amorphous, fumed Silica, colloidal Silicon dioxide Silicon dioxide, amorphous SILICA Silicon(IV) oxide Un-crystalline silica Pigment White 27 Silicon dioxide (amorphous) Silicon dioxide amorphous Fumed silica SOLUM DIATOMEAE silicon dioxide Hydrated silica	(CAS-No.) 7631-86-9	< 0.1	Not classified.
Mica	Mica dust Mica group minerals Silicates, mica C.I. 77019 Mica-group minerals MICA C.I. Pigment White 20 Pigment White 20	(CAS-No.) 12001-26-2	< 0.1	STOT RE 1, H372
Propanol, 1(or 2)-(2-methoxymethylethoxy)-	Dipropylene glycol monomethyl ether (2-Methoxymethylethoxy)propanol Propanol, (2-methoxymethylethoxy)- Dipropylene glycol methyl ether DPGME Methoxypropoxypropanol (2-Methoxymethylethoxy)propanol, mixed isomers Monomethyl ether of dipropylenglycol 1(or 2)-[2-Methoxy(methyl)ethoxy]propanol PPG-2 methyl ether (2-Methoxymethylethoxy)propanol PPG-2 METHYL ETHER	(CAS-No.) 34590-94-8	< 0.1	Flam. Liq. 4, H227
Ethylbenzene	Phenylethane Benzene, ethyl- ETHYLBENZENE	(CAS-No.) 100-41-4	< 0.1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

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Benzene, trimethyl-	Benzene, trimethyl- (mixed isomers) Trimethylbenzene (all isomers) Trimethylbenzene Trimethylbenzene, all isomers Trimethylbenzene, all isomers or mixtures Trimethylbenzenes (all isomers or mixtures) Trimethylbenzenes, all isomers or mixtures Trimethylbenzene (mixed isomers) Trimethylbenzene, mixture Trimethylbenzenes Trimethylbenzene, mixed isomers TRIMETHYLBENZENE trimethylbenzene (mixed isomers)	(CAS-No.) 25551-13-7	< 0.1	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Naphthalene	Naphthalene, molten Naphthalene, crude Naphthalenes Moth balls	(CAS-No.) 91-20-3	< 0.1	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Comb. Dust
Benzene, 1,2,4-trimethyl-	Pseudocumene 1,2,4-Trimethylbenzene Trimethylbenzene Trimethylbenzene, 1,2,4-	(CAS-No.) 95-63-6	< 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapor), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
1,3,5-Trimethylbenzene	Benzene, 1,3,5-trimethyl- Mesitylene sym-Trimethylbenzene Trimethylbenzene, 1,3,5- MESITYLENE	(CAS-No.) 108-67-8	< 0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Isopropylbenzene	2-Phenylpropane (1-Methylethyl)benzene Benzene, (1-methylethyl)- Cumene	(CAS-No.) 98-82-8	< 0.1	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
1,2,3-Trimethylbenzene	Trimethylbenzene, 1,2,3- Hemimellitene Benzene, 1,2,3-trimethyl-	(CAS-No.) 526-73-8	< 0.1	Flam. Liq. 3, H226
Pitch, coal tar, high-temperature	Coal tar pitches Coal tar pitch Coal tar pitch volatiles Coal-tar pitch Coal tar pitches, high temperature	(CAS-No.) 65996-93-2	< 0.1	Comb. Dust Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1A, H350 Repr. 1B, H360

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	<p>Pitch, coal tar, high-temperature (The residue from the distillation of high temperature coal tar. A black solid with an approximate softening point from 30-180°C. Composed primarily of a complex mixture of three or more membered condensed ring aromatic hydrocarbons.) Pitch, coal tar Coal tar, high temperature Coal pitch (vapors or aerosols, benzene-soluble fraction) Pitch, coal tar, high-temp.; Pitch [The residue from the distillation of high temperature coal tar. A black solid with an approximate softening point from 30°C to 180°C (86°F to 356°F). Composed primarily of a complex mixture of three or more membered condensed ring aromatic hydrocarbons.] Pitches, coal tar Coal tar pitch high temperature</p>			<p>Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>
<p>Talc (Mg3H2(SiO3)4)</p>	<p>Talc Magnesium silicate Talc (containing no asbestos fibers) Talc (containing no asbestos) Talc not containing asbestiform fibres Talc, not containing asbestos Talc, containing no asbestos fibres Talc (nonasbestos form) Talc (non-asbestos form) Talc, non-fibrous type Talc, non fibrous Talc (containing no asbestos fibres) Non-asbestiform talc Talc (not containing asbestos) C.I. 77718 TALC Trimagnesium tetrasilicon undecaoxide hydrate Talc, non-asbestiform Talc, non-fibrous Pigment White 26 Magnesium silicate, hydrous Talc, not containing mineral fibers (including asbestos) Asbestiform talc Talc powder</p>	<p>(CAS-No.) 14807-96-6</p>	<p>&lt; 0.1</p>	<p>Not classified.</p>
<p>Benzene, 1-chloro-4-(trifluoromethyl)-</p>	<p>4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 1-Chloro-4-(trifluoromethyl)benzene p-Chlorobenzotrifluoride Toluene, p-chloro-</p>	<p>(CAS-No.) 98-56-6</p>		<p>Flam. Liq. 3, H226 Skin Sens. 1B, H317 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 2, H401 Aquatic Chronic 2, H411</p>

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	.alpha.,.alpha.,.alpha.-trifluoro-p-(Trifluoromethyl)chlorobenzene p-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene PCBTF Parachlorobenzotrifluoride 4-Chlorobenzotrifluoride 4-Trifluoromethylchlorobenzene para-Trifluoromethylchlorobenzene para-Chlorobenzotrifluoride			
Acetone	ACETONE Propan-2-one 2-Propanone Dimethyl ketone Propanone	(CAS-No.) 67-64-1	< 0.1	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Triethylenetetramine	Trientine HY 951 Ethylenediamine, N,N'-bis(2-aminoethyl)- 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)- Ethane-1,2-diamine, N,N'-bis(2-aminoethyl)- DEH 24 N,N'-Bis(2-aminoethyl)ethylenediamine N,N'-Bis(2-aminoethyl)-1,2-ethanediamine Araldite hardener HY 951 1,2-Ethanediamine, N1,N2-bis(2-aminoethyl)- 3,6-Diazaoctanethylenediamin TETA 3,6-Diazaoctane-1,8-diamine 3,6-Diazaoctane-1,8-diylldiamine 3,6-Diazaoctanethylenediamine	(CAS-No.) 112-24-3	< 0.1	Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Toluene	Benzene, methyl- Methylbenzene Phenylmethane TOLUENE	(CAS-No.) 108-88-3	< 0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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**Inhalation:** Using proper respiratory protection, immediately move the exposed person to fresh air. Encourage exposed person to cough, spit out, and blow nose to remove dust. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Cool skin rapidly with cold water after contact with molten product. Removal of solidified molten material from skin requires medical assistance. Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Removal of solidified molten material from the eyes requires medical assistance. Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Inhalation:** Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

**Skin Contact:** Contact with fumes or metal powder will irritate skin. Contact with hot, molten metal will cause thermal burns.

**Eye Contact:** During metal processing, dusts caused from physical alteration will likely cause eye irritation. Fumes from thermal decomposition or molten material will likely be irritating to the eyes. Risk of thermal burns on contact with molten product.

**Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** Overexposure to metal fumes may result metal fume fever (chills, muscle aches, nausea, fever, dry throat, cough, weakness, lassitude), disturbances in smell and/or taste, and possible discoloration of skin, hair and mucous membranes; discoloration may become permanent.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** For metal fires, dry sand, graphite, or dry table salt may be used. Use class D extinguishing media on fines, dust, or molten metal. Use water spray on chips and fines.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire. Do not use halogenated extinguishing agents on small chips or fines. Do not use water when molten material is involved, contact of hot product with water will result in a violent expansion as the water turns to steam causing explosion with massive force.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures. Small chips, turnings, dust and fines from processing may be readily ignitable. Molten material may react violently with water forming explosive or flammable reactions.

**Explosion Hazard:** Product is not explosive. Molten material may react violently with water forming explosive or flammable reactions.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Metal oxides.

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust, fumes.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

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**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release of dust/fines to waterways to avoid potential bioaccumulation.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Recycle or dispose of in compliance with current legislation.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations. May be a potential hazard under the following conditions: Small chunks, dust or fines in contact with water can generate flammable or toxic gases. These gases could present an explosion hazard in confined or poorly ventilated spaces. Finely divided metals (e.g. powders or wire) may have enough surface oxide to produce thermite reactions/explosions. If suspected of containing moisture, product should be thoroughly dried before being added to a molten bath. Otherwise, entrained moisture could expand explosively and spatter molten metal out of the bath. Risk of thermal burns on contact with molten product.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust, fume.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Mineral acids. Water. Corrosive substances in contact with metals may produce flammable hydrogen gas.

### 7.3. Specific End Use(s)

Retaining Walls, Land Reclamation, Underground Structure

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Chromium (7440-47-3)		
USA ACGIH	ACGIH OEL TWA	0.5 mg/m <sup>3</sup> (inhalable particulate matter)
USA ACGIH	BEI (BLV)	0.7 µg/l Parameter: total Chromium - Medium: urine - Sampling time: end of shift at end of workweek (population based)
USA OSHA	OSHA PEL TWA	1 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA)	0.5 mg/m <sup>3</sup>
USA IDLH	IDLH	250 mg/m <sup>3</sup>
Alberta	OEL TWA	0.5 mg/m <sup>3</sup>
British Columbia	OEL TWA	0.5 mg/m <sup>3</sup> (total)
Manitoba	OEL TWA	0.5 mg/m <sup>3</sup> (inhalable particulate matter)
New Brunswick	OEL TWA	0.5 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL TWA	0.5 mg/m <sup>3</sup> (inhalable particulate matter)



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<b>Nova Scotia</b>	OEL TWA	0.5 mg/m <sup>3</sup> (inhalable particulate matter)
<b>Nunavut</b>	OEL STEL	1.5 mg/m <sup>3</sup> (metal)
<b>Nunavut</b>	OEL TWA	0.5 mg/m <sup>3</sup> (metal)
<b>Northwest Territories</b>	OEL STEL	1.5 mg/m <sup>3</sup> (metal)
<b>Northwest Territories</b>	OEL TWA	0.5 mg/m <sup>3</sup> (metal)
<b>Ontario</b>	OEL TWAEV	0.5 mg/m <sup>3</sup>
<b>Prince Edward Island</b>	OEL TWA	0.5 mg/m <sup>3</sup> (inhalable particulate matter)
<b>Québec</b>	VEMP (OEL TWAEV)	0.5 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL STEL	1.5 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL TWA	0.5 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL	3 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	0.1 mg/m <sup>3</sup>
<b>Manganese (7439-96-5)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	0.02 mg/m <sup>3</sup> (respirable particulate matter) 0.1 mg/m <sup>3</sup> (inhalable particulate matter)
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA OSHA</b>	OSHA PEL (Ceiling)	5 mg/m <sup>3</sup> (fume)
<b>USA NIOSH</b>	NIOSH REL (TWA)	1 mg/m <sup>3</sup> (fume)
<b>USA NIOSH</b>	NIOSH REL (STEL)	3 mg/m <sup>3</sup>
<b>USA IDLH</b>	IDLH	500 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA	0.2 mg/m <sup>3</sup> (total) 0.02 mg/m <sup>3</sup> (respirable)
<b>Manitoba</b>	OEL TWA	0.02 mg/m <sup>3</sup> (respirable particulate matter) 0.1 mg/m <sup>3</sup> (inhalable particulate matter)
<b>New Brunswick</b>	OEL TWA	0.02 mg/m <sup>3</sup> (respirable fraction) 0.1 mg/m <sup>3</sup> (inhalable fraction)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	0.02 mg/m <sup>3</sup> (respirable particulate matter) 0.1 mg/m <sup>3</sup> (inhalable particulate matter)
<b>Nova Scotia</b>	OEL TWA	0.02 mg/m <sup>3</sup> (respirable particulate matter) 0.1 mg/m <sup>3</sup> (inhalable particulate matter)
<b>Nunavut</b>	OEL STEL	0.6 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL	0.6 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>Ontario</b>	OEL TWAEV	0.2 mg/m <sup>3</sup>
<b>Prince Edward Island</b>	OEL TWA	0.02 mg/m <sup>3</sup> (respirable particulate matter) 0.1 mg/m <sup>3</sup> (inhalable particulate matter)
<b>Québec</b>	VEMP (OEL TWAEV)	0.2 mg/m <sup>3</sup> (total dust and fume)
<b>Saskatchewan</b>	OEL STEL	0.6 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>Yukon</b>	OEL C	5 mg/m <sup>3</sup>
<b>Methyl ethyl ketone (78-93-3)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	200 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL	300 ppm
<b>USA ACGIH</b>	BEI (BLV)	2 mg/l Parameter: MEK - Medium: urine - Sampling time: end of shift (nonspecific)
<b>USA OSHA</b>	OSHA PEL TWA	590 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	200 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	590 mg/m <sup>3</sup>

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<b>USA NIOSH</b>	NIOSH REL (TWA)	200 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	885 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (STEL)	300 ppm
<b>USA IDLH</b>	IDLH	3000 ppm
<b>Alberta</b>	OEL STEL	885 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL	300 ppm
<b>Alberta</b>	OEL TWA	590 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	200 ppm
<b>British Columbia</b>	OEL STEL	100 ppm
<b>British Columbia</b>	OEL TWA	50 ppm
<b>Manitoba</b>	OEL STEL	300 ppm
<b>Manitoba</b>	OEL TWA	200 ppm
<b>New Brunswick</b>	OEL STEL	300 ppm
<b>New Brunswick</b>	OEL TWA	200 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL	300 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA	200 ppm
<b>Nova Scotia</b>	OEL STEL	300 ppm
<b>Nova Scotia</b>	OEL TWA	200 ppm
<b>Nunavut</b>	OEL STEL	300 ppm
<b>Nunavut</b>	OEL TWA	200 ppm
<b>Northwest Territories</b>	OEL STEL	300 ppm
<b>Northwest Territories</b>	OEL TWA	200 ppm
<b>Ontario</b>	OEL TWAEV	300 ppm
<b>Ontario</b>	OEL TWAEV	200 ppm
<b>Prince Edward Island</b>	OEL STEL	300 ppm
<b>Prince Edward Island</b>	OEL TWA	200 ppm
<b>Québec</b>	VECD (OEL STEV)	300 mg/m <sup>3</sup>
<b>Québec</b>	VECD (OEL STEV)	100 ppm
<b>Québec</b>	VEMP (OEL TWAEV)	150 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWAEV)	50 ppm
<b>Saskatchewan</b>	OEL STEL	300 ppm
<b>Saskatchewan</b>	OEL TWA	200 ppm
<b>Yukon</b>	OEL STEL	740 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL	250 ppm
<b>Yukon</b>	OEL TWA	590 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	200 ppm
<b>Ethylbenzene (100-41-4)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	20 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>USA ACGIH</b>	BEI (BLV)	0.15 g/g Kreatinin Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: end of shift (nonspecific)
<b>USA OSHA</b>	OSHA PEL TWA	435 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	100 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	435 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA)	100 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	545 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (STEL)	125 ppm
<b>USA IDLH</b>	IDLH	800 ppm (10% LEL)

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Alberta	OEL STEL	543 mg/m <sup>3</sup>
Alberta	OEL STEL	125 ppm
Alberta	OEL TWA	434 mg/m <sup>3</sup>
Alberta	OEL TWA	100 ppm
British Columbia	OEL TWA	20 ppm
Manitoba	OEL TWA	20 ppm
New Brunswick	OEL TWA	20 ppm
Newfoundland & Labrador	OEL TWA	20 ppm
Nova Scotia	OEL TWA	20 ppm
Nunavut	OEL STEL	125 ppm
Nunavut	OEL TWA	100 ppm
Northwest Territories	OEL STEL	125 ppm
Northwest Territories	OEL TWA	100 ppm
Ontario	OEL TWAEV	20 ppm
Prince Edward Island	OEL TWA	20 ppm
Québec	VEMP (OEL TWAEV)	20 ppm
Saskatchewan	OEL STEL	125 ppm
Saskatchewan	OEL TWA	100 ppm
Yukon	OEL STEL	545 mg/m <sup>3</sup>
Yukon	OEL STEL	125 ppm
Yukon	OEL TWA	435 mg/m <sup>3</sup>
Yukon	OEL TWA	100 ppm
<b>2-Heptanone (110-43-0)</b>		
USA ACGIH	ACGIH OEL TWA	50 ppm
USA OSHA	OSHA PEL TWA	465 mg/m <sup>3</sup>
USA OSHA	OSHA PEL TWA	100 ppm
USA NIOSH	NIOSH REL (TWA)	465 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA)	100 ppm
USA IDLH	IDLH	800 ppm
Alberta	OEL TWA	233 mg/m <sup>3</sup>
Alberta	OEL TWA	50 ppm
British Columbia	OEL TWA	50 ppm
Manitoba	OEL TWA	50 ppm
New Brunswick	OEL TWA	50 ppm
Newfoundland & Labrador	OEL TWA	50 ppm
Nova Scotia	OEL TWA	50 ppm
Nunavut	OEL STEL	60 ppm
Nunavut	OEL TWA	50 ppm
Northwest Territories	OEL STEL	60 ppm
Northwest Territories	OEL TWA	50 ppm
Ontario	OEL TWAEV	115 mg/m <sup>3</sup>
Ontario	OEL TWAEV	25 ppm
Prince Edward Island	OEL TWA	50 ppm
Québec	VEMP (OEL TWAEV)	233 mg/m <sup>3</sup>
Québec	VEMP (OEL TWAEV)	50 ppm
Saskatchewan	OEL STEL	60 ppm
Saskatchewan	OEL TWA	50 ppm
Yukon	OEL STEL	710 mg/m <sup>3</sup>
Yukon	OEL STEL	150 ppm

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<b>Yukon</b>	OEL TWA	465 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	100 ppm
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	20 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA ACGIH</b>	BEI (BLV)	1.5 g/g Kreatinin Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift (technical or commercial grade)
<b>USA OSHA</b>	OSHA PEL TWA	435 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	100 ppm
<b>Alberta</b>	OEL STEL	651 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL	150 ppm
<b>Alberta</b>	OEL TWA	434 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	100 ppm
<b>British Columbia</b>	OEL STEL	150 ppm
<b>British Columbia</b>	OEL TWA	100 ppm
<b>Manitoba</b>	OEL TWA	20 ppm
<b>New Brunswick</b>	OEL STEL	150 ppm
<b>New Brunswick</b>	OEL TWA	100 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA	20 ppm
<b>Nova Scotia</b>	OEL TWA	20 ppm
<b>Nunavut</b>	OEL STEL	150 ppm
<b>Nunavut</b>	OEL TWA	100 ppm
<b>Northwest Territories</b>	OEL STEL	150 ppm
<b>Northwest Territories</b>	OEL TWA	100 ppm
<b>Ontario</b>	OEL TWAEV	150 ppm
<b>Ontario</b>	OEL TWAEV	100 ppm
<b>Prince Edward Island</b>	OEL TWA	20 ppm
<b>Québec</b>	VECD (OEL STEV)	651 mg/m <sup>3</sup>
<b>Québec</b>	VECD (OEL STEV)	150 ppm
<b>Québec</b>	VEMP (OEL TWAEV)	434 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWAEV)	100 ppm
<b>Saskatchewan</b>	OEL STEL	150 ppm
<b>Saskatchewan</b>	OEL TWA	100 ppm
<b>Yukon</b>	OEL STEL	650 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL	150 ppm
<b>Yukon</b>	OEL TWA	435 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	100 ppm
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA NIOSH</b>	NIOSH REL (TWA)	125 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA)	25 ppm
<b>Manitoba</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>Nova Scotia</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>Prince Edward Island</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>Benzene, trimethyl- (25551-13-7)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	10 ppm

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<b>Alberta</b>	OEL TWA	123 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	25 ppm
<b>British Columbia</b>	OEL TWA	25 ppm
<b>Manitoba</b>	OEL TWA	10 ppm
<b>New Brunswick</b>	OEL TWA	25 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA	10 ppm
<b>Nova Scotia</b>	OEL TWA	10 ppm
<b>Nunavut</b>	OEL STEL	30 ppm
<b>Nunavut</b>	OEL TWA	25 ppm
<b>Northwest Territories</b>	OEL STEL	30 ppm
<b>Northwest Territories</b>	OEL TWA	25 ppm
<b>Ontario</b>	OEL TWAEV	25 ppm
<b>Prince Edward Island</b>	OEL TWA	10 ppm
<b>Québec</b>	VEMP (OEL TWAEV)	25 ppm
<b>Saskatchewan</b>	OEL STEL	30 ppm
<b>Saskatchewan</b>	OEL TWA	25 ppm
<b>Yukon</b>	OEL STEL	180 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL	35 ppm
<b>Yukon</b>	OEL TWA	120 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	25 ppm
<b>Isopropylbenzene (98-82-8)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	5 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>USA OSHA</b>	OSHA PEL TWA	245 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	50 ppm
<b>USA OSHA</b>	Limit value category (OSHA)	prevent or reduce skin absorption
<b>USA NIOSH</b>	NIOSH REL (TWA)	245 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA)	50 ppm
<b>USA IDLH</b>	IDLH	900 ppm (10% LEL)
<b>Alberta</b>	OEL TWA	246 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	50 ppm
<b>British Columbia</b>	OEL STEL	75 ppm
<b>British Columbia</b>	OEL TWA	25 ppm
<b>Manitoba</b>	OEL TWA	5 ppm
<b>New Brunswick</b>	OEL TWA	50 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA	5 ppm
<b>Nova Scotia</b>	OEL TWA	5 ppm
<b>Nunavut</b>	OEL STEL	74 ppm
<b>Nunavut</b>	OEL TWA	50 ppm
<b>Northwest Territories</b>	OEL STEL	74 ppm
<b>Northwest Territories</b>	OEL TWA	50 ppm
<b>Ontario</b>	OEL TWAEV	50 ppm
<b>Prince Edward Island</b>	OEL TWA	5 ppm
<b>Québec</b>	VEMP (OEL TWAEV)	246 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWAEV)	50 ppm
<b>Saskatchewan</b>	OEL STEL	74 ppm
<b>Saskatchewan</b>	OEL TWA	50 ppm
<b>Yukon</b>	OEL STEL	365 mg/m <sup>3</sup>

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<b>Yukon</b>	OEL STEL	75 ppm
<b>Yukon</b>	OEL TWA	245 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	50 ppm
<b>1,3,5-Trimethylbenzene (108-67-8)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>USA NIOSH</b>	NIOSH REL (TWA)	125 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA)	25 ppm
<b>Manitoba</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>Nova Scotia</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>Prince Edward Island</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>1,2,3-Trimethylbenzene (526-73-8)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>USA NIOSH</b>	NIOSH REL (TWA)	125 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA)	25 ppm
<b>Manitoba</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>Nova Scotia</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>Prince Edward Island</b>	OEL TWA	10 ppm (Trimethylbenzene, isomers)
<b>Pitch, coal tar, high-temperature (65996-93-2)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	0.2 mg/m <sup>3</sup>
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Human Carcinogen
<b>USA ACGIH</b>	BEI (BLV)	2.5 µg/l Parameter: 1-Hydroxypyrene with hydrolysis - Medium: urine - Sampling time: end of shift at end of workweek (background)
<b>USA OSHA</b>	OSHA PEL TWA	0.2 mg/m <sup>3</sup> (benzene soluble fraction)
<b>USA NIOSH</b>	NIOSH REL (TWA)	0.1 mg/m <sup>3</sup> (Cyclohexane-extractable fraction)
<b>USA IDLH</b>	IDLH	80 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>Manitoba</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>Newfoundland &amp; Labrador</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>Nova Scotia</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL STEL	0.6 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL	0.6 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>Ontario</b>	OEL TWAEV	0.2 mg/m <sup>3</sup>
<b>Prince Edward Island</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWAEV)	0.2 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL STEL	0.6 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL TWA	0.2 mg/m <sup>3</sup>
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>) (14807-96-6)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	2 mg/m <sup>3</sup> (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen containing no asbestos fibers
<b>USA OSHA</b>	OSHA PEL TWA	20 mppcf (if 1% Quartz or more, use Quartz limit)

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<b>USA OSHA</b>	OSHA PEL TWA	20 mppcf ((not containing asbestos) containing <1% quartz, if 1% quartz or more; use quartz limit) (See 29 CFR 1910.1000 TABLE Z-3)
<b>USA NIOSH</b>	NIOSH REL (TWA)	2 mg/m <sup>3</sup> (containing no Asbestos and <1% Quartz-respirable dust)
<b>USA IDLH</b>	IDLH	1000 mg/m <sup>3</sup> (containing no asbestos and <1% quartz)
<b>Alberta</b>	OEL TWA	2 mg/m <sup>3</sup> (respirable particulate)
<b>British Columbia</b>	OEL TWA	2 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate)
<b>Manitoba</b>	OEL TWA	2 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-particulate matter, respirable particulate matter)
<b>New Brunswick</b>	OEL TWA	2 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	2 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-particulate matter, respirable particulate matter)
<b>Nova Scotia</b>	OEL TWA	2 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-particulate matter, respirable particulate matter)
<b>Nunavut</b>	OEL TWA	2 mg/m <sup>3</sup> (respirable fraction)
<b>Northwest Territories</b>	OEL TWA	2 mg/m <sup>3</sup> (respirable fraction)
<b>Ontario</b>	OEL TWAEV	2 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-respirable fraction)
<b>Prince Edward Island</b>	OEL TWA	2 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-particulate matter, respirable particulate matter)
<b>Québec</b>	VEMP (OEL TWAEV)	2 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-respirable dust)
<b>Saskatchewan</b>	OEL TWA	2 mg/m <sup>3</sup> (respirable fraction)
<b>Yukon</b>	OEL TWA	20 mppcf
<b>Acetone (67-64-1)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	250 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL	500 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA ACGIH</b>	BEI (BLV)	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift (nonspecific)
<b>USA OSHA</b>	OSHA PEL TWA	2400 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	1000 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	590 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA)	250 ppm
<b>USA IDLH</b>	IDLH	2500 ppm (10% LEL)
<b>Alberta</b>	OEL STEL	1800 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL	750 ppm
<b>Alberta</b>	OEL TWA	1200 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	500 ppm
<b>British Columbia</b>	OEL STEL	500 ppm
<b>British Columbia</b>	OEL TWA	250 ppm
<b>Manitoba</b>	OEL STEL	500 ppm
<b>Manitoba</b>	OEL TWA	250 ppm
<b>New Brunswick</b>	OEL STEL	500 ppm

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<b>New Brunswick</b>	OEL TWA	250 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL	500 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA	250 ppm
<b>Nova Scotia</b>	OEL STEL	500 ppm
<b>Nova Scotia</b>	OEL TWA	250 ppm
<b>Nunavut</b>	OEL STEL	750 ppm
<b>Nunavut</b>	OEL TWA	500 ppm
<b>Northwest Territories</b>	OEL STEL	750 ppm
<b>Northwest Territories</b>	OEL TWA	500 ppm
<b>Ontario</b>	OEL TWAEV	500 ppm
<b>Ontario</b>	OEL TWAEV	250 ppm
<b>Prince Edward Island</b>	OEL STEL	500 ppm
<b>Prince Edward Island</b>	OEL TWA	250 ppm
<b>Québec</b>	VECD (OEL STEV)	2380 mg/m <sup>3</sup>
<b>Québec</b>	VECD (OEL STEV)	1000 ppm
<b>Québec</b>	VEMP (OEL TWAEV)	1190 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWAEV)	500 ppm
<b>Saskatchewan</b>	OEL STEL	750 ppm
<b>Saskatchewan</b>	OEL TWA	500 ppm
<b>Yukon</b>	OEL STEL	3000 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL	1250 ppm
<b>Yukon</b>	OEL TWA	2400 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	1000 ppm
<b>Triethylenetetramine (112-24-3)</b>		
<b>USA AIHA</b>	WEEL TWA	1 ppm
<b>USA AIHA</b>	AIHA chemical category	skin notation
<b>Ontario</b>	OEL TWAEV	3 mg/m <sup>3</sup>
<b>Ontario</b>	OEL TWAEV	0.5 ppm
<b>Quartz (14808-60-7)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
<b>USA ACGIH</b>	ACGIH chemical category	Suspected Human Carcinogen
<b>USA OSHA</b>	OSHA PEL TWA	50 µg/m <sup>3</sup> (Respirable crystalline silica)
<b>USA OSHA</b>	OSHA PEL TWA	(250)/(%SiO <sub>2</sub> +5) mppcf TWA (respirable fraction) (10)/(%SiO <sub>2</sub> +2) mg/m <sup>3</sup> TWA (respirable fraction) (For any operations or sectors for which the respirable crystalline silica standard, 1910.1053, is stayed or otherwise not in effect, See 20 CFR 1910.1000 TABLE Z-3)
<b>USA NIOSH</b>	NIOSH REL (TWA)	0.05 mg/m <sup>3</sup> (respirable dust)
<b>USA IDLH</b>	IDLH	50 mg/m <sup>3</sup> (respirable dust)
<b>Alberta</b>	OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate)
<b>British Columbia</b>	OEL TWA	0.025 mg/m <sup>3</sup> (respirable)
<b>Manitoba</b>	OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
<b>New Brunswick</b>	OEL TWA	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
<b>Nova Scotia</b>	OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
<b>Nunavut</b>	OEL TWA	0.05 mg/m <sup>3</sup> (Trydimite removed-respirable fraction (Silica - crystalline))
<b>Northwest Territories</b>	OEL TWA	0.05 mg/m <sup>3</sup> (Trydimite removed-respirable fraction (Silica - crystalline))



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<b>Ontario</b>	OEL TWAEV	0.1 mg/m <sup>3</sup> (designated substances regulation-respirable fraction (Silica, crystalline))
<b>Prince Edward Island</b>	OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
<b>Québec</b>	VEMP (OEL TWAEV)	0.1 mg/m <sup>3</sup> (respirable dust)
<b>Saskatchewan</b>	OEL TWA	0.05 mg/m <sup>3</sup> (Trydimite removed-respirable fraction (Silica - crystalline (Trydimite removed)))
<b>Yukon</b>	OEL TWA	300 particle/mL (Silica - Quartz, crystalline)
<b>Toluene (108-88-3)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	20 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA ACGIH</b>	BEI (BLV)	0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 0.3 mg/g Kreatinin Parameter: o-Cresol with hydrolysis - Medium: urine - Sampling time: end of shift (background)
<b>USA OSHA</b>	OSHA PEL TWA	200 ppm
<b>USA OSHA</b>	OSHA PEL (Ceiling)	300 ppm
<b>USA OSHA</b>	Acceptable Maximum Peak Above The Acceptable Ceiling Concentration For An 8-Hr Shift	500 ppm Peak (10 minutes)
<b>USA NIOSH</b>	NIOSH REL (TWA)	375 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA)	100 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	560 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (STEL)	150 ppm
<b>USA IDLH</b>	IDLH	500 ppm
<b>Alberta</b>	OEL TWA	188 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	50 ppm
<b>British Columbia</b>	OEL TWA	20 ppm
<b>Manitoba</b>	OEL TWA	20 ppm
<b>New Brunswick</b>	OEL TWA	20 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA	20 ppm
<b>Nova Scotia</b>	OEL TWA	20 ppm
<b>Nunavut</b>	OEL STEL	60 ppm
<b>Nunavut</b>	OEL TWA	50 ppm
<b>Northwest Territories</b>	OEL STEL	60 ppm
<b>Northwest Territories</b>	OEL TWA	50 ppm
<b>Ontario</b>	OEL TWAEV	20 ppm
<b>Prince Edward Island</b>	OEL TWA	20 ppm
<b>Québec</b>	VEMP (OEL TWAEV)	20 ppm
<b>Saskatchewan</b>	OEL STEL	60 ppm
<b>Saskatchewan</b>	OEL TWA	50 ppm
<b>Yukon</b>	OEL STEL	560 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL	150 ppm
<b>Yukon</b>	OEL TWA	375 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	100 ppm
<b>Silicic acid (H4SiO4), tetraethyl ester (78-10-4)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	10 ppm
<b>USA OSHA</b>	OSHA PEL TWA	850 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	100 ppm

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<b>USA NIOSH</b>	NIOSH REL (TWA)	85 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA)	10 ppm
<b>USA IDLH</b>	IDLH	700 ppm
<b>Alberta</b>	OEL TWA	85 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	10 ppm
<b>British Columbia</b>	OEL TWA	10 ppm
<b>Manitoba</b>	OEL TWA	10 ppm
<b>New Brunswick</b>	OEL TWA	10 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA	10 ppm
<b>Nova Scotia</b>	OEL TWA	10 ppm
<b>Nunavut</b>	OEL STEL	15 ppm
<b>Nunavut</b>	OEL TWA	10 ppm
<b>Northwest Territories</b>	OEL STEL	15 ppm
<b>Northwest Territories</b>	OEL TWA	10 ppm
<b>Ontario</b>	OEL TWAEV	10 ppm
<b>Prince Edward Island</b>	OEL TWA	10 ppm
<b>Québec</b>	VEMP (OEL TWAEV)	85 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWAEV)	10 ppm
<b>Saskatchewan</b>	OEL STEL	15 ppm
<b>Saskatchewan</b>	OEL TWA	10 ppm
<b>Yukon</b>	OEL STEL	1275 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL	150 ppm
<b>Yukon</b>	OEL TWA	850 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	100 ppm
<b>Ethyl alcohol (64-17-5)</b>		
<b>USA ACGIH</b>	ACGIH OEL STEL	1000 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>USA OSHA</b>	OSHA PEL TWA	1900 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	1000 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	1900 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA)	1000 ppm
<b>USA IDLH</b>	IDLH	3300 ppm (10% LEL)
<b>Alberta</b>	OEL TWA	1880 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	1000 ppm
<b>British Columbia</b>	OEL STEL	1000 ppm
<b>Manitoba</b>	OEL STEL	1000 ppm
<b>New Brunswick</b>	OEL STEL	1000 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL	1000 ppm
<b>Nova Scotia</b>	OEL STEL	1000 ppm
<b>Nunavut</b>	OEL STEL	1250 ppm
<b>Nunavut</b>	OEL TWA	1000 ppm
<b>Northwest Territories</b>	OEL STEL	1250 ppm
<b>Northwest Territories</b>	OEL TWA	1000 ppm
<b>Ontario</b>	OEL TWAEV	1000 ppm
<b>Prince Edward Island</b>	OEL STEL	1000 ppm
<b>Québec</b>	VECD (OEL STEV)	1000 ppm
<b>Saskatchewan</b>	OEL STEL	1250 ppm
<b>Saskatchewan</b>	OEL TWA	1000 ppm
<b>Yukon</b>	OEL STEL	1900 mg/m <sup>3</sup>

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<b>Yukon</b>	OEL STEL	1000 ppm
<b>Yukon</b>	OEL TWA	1900 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	1000 ppm
<b>Silica, amorphous (7631-86-9)</b>		
<b>USA OSHA</b>	OSHA PEL TWA	6 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	20 mppcf (80mg/m <sup>3</sup> /%SiO <sub>2</sub> )
<b>USA NIOSH</b>	NIOSH REL (TWA)	6 mg/m <sup>3</sup>
<b>USA IDLH</b>	IDLH	3000 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	300 particle/mL (as measured by Konimeter instrumentation (Silica) 20 mppcf (as measured by Impinger instrumentation (Silica) 2 mg/m <sup>3</sup> (respirable mass (Silica)
<b>Mica (12001-26-2)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	0.1 mg/m <sup>3</sup> (respirable particulate matter)
<b>USA OSHA</b>	OSHA PEL TWA	20 mppcf (<1% Crystalline silica-respirable dust)
<b>USA OSHA</b>	OSHA PEL TWA	20 mppcf (<1% Crystalline silica) (See 20 CFR 1910.1000 TABLE Z-3)
<b>USA NIOSH</b>	NIOSH REL (TWA)	3 mg/m <sup>3</sup> (containing <1% Quartz-respirable dust)
<b>USA IDLH</b>	IDLH	1500 mg/m <sup>3</sup> (containing <1% quartz)
<b>Alberta</b>	OEL TWA	3 mg/m <sup>3</sup> (respirable)
<b>British Columbia</b>	OEL TWA	3 mg/m <sup>3</sup> (respirable)
<b>Manitoba</b>	OEL TWA	0.1 mg/m <sup>3</sup> (respirable particulate matter)
<b>New Brunswick</b>	OEL TWA	3 mg/m <sup>3</sup> (respirable fraction)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	0.1 mg/m <sup>3</sup> (respirable particulate matter)
<b>Nova Scotia</b>	OEL TWA	0.1 mg/m <sup>3</sup> (respirable particulate matter)
<b>Nunavut</b>	OEL STEL	6 mg/m <sup>3</sup> (respirable fraction)
<b>Nunavut</b>	OEL TWA	3 mg/m <sup>3</sup> (respirable fraction)
<b>Northwest Territories</b>	OEL STEL	6 mg/m <sup>3</sup> (respirable fraction)
<b>Northwest Territories</b>	OEL TWA	3 mg/m <sup>3</sup> (respirable fraction)
<b>Ontario</b>	OEL TWAEV	3 mg/m <sup>3</sup> (respirable particulate matter)
<b>Prince Edward Island</b>	OEL TWA	0.1 mg/m <sup>3</sup> (respirable particulate matter)
<b>Québec</b>	VEMP (OEL TWAEV)	3 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-respirable dust)
<b>Saskatchewan</b>	OEL STEL	6 mg/m <sup>3</sup> (respirable fraction)
<b>Saskatchewan</b>	OEL TWA	3 mg/m <sup>3</sup> (respirable fraction)
<b>Yukon</b>	OEL TWA	20 mppcf
<b>Naphthalene (91-20-3)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	10 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route
<b>USA ACGIH</b>	BEI (BLV)	Parameter: 1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis - Sampling time: end of shift (nonquantitative, nonspecific)
<b>USA OSHA</b>	OSHA PEL TWA	50 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	10 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	50 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA)	10 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	75 mg/m <sup>3</sup>

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<b>USA NIOSH</b>	NIOSH REL (STEL)	15 ppm
<b>USA IDLH</b>	IDLH	250 ppm
<b>Alberta</b>	OEL STEL	79 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL	15 ppm
<b>Alberta</b>	OEL TWA	52 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	10 ppm
<b>British Columbia</b>	OEL TWA	10 ppm
<b>Manitoba</b>	OEL TWA	10 ppm
<b>New Brunswick</b>	OEL TWA	10 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA	10 ppm
<b>Nova Scotia</b>	OEL TWA	10 ppm
<b>Nunavut</b>	OEL STEL	15 ppm
<b>Nunavut</b>	OEL TWA	10 ppm
<b>Northwest Territories</b>	OEL STEL	15 ppm
<b>Northwest Territories</b>	OEL TWA	10 ppm
<b>Ontario</b>	OEL TWAEV	10 ppm
<b>Prince Edward Island</b>	OEL TWA	10 ppm
<b>Québec</b>	VEMP (OEL TWAEV)	10 ppm
<b>Saskatchewan</b>	OEL STEL	15 ppm
<b>Saskatchewan</b>	OEL TWA	10 ppm
<b>Yukon</b>	OEL STEL	75 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL	15 ppm
<b>Yukon</b>	OEL TWA	50 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	10 ppm

<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	50 ppm (Dipropylene glycol methyl ether)
<b>USA OSHA</b>	OSHA PEL TWA	600 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	100 ppm
<b>USA OSHA</b>	Limit value category (OSHA)	prevent or reduce skin absorption
<b>USA NIOSH</b>	NIOSH REL (TWA)	600 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA)	100 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	900 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (STEL)	150 ppm
<b>USA IDLH</b>	IDLH	600 ppm
<b>Alberta</b>	OEL STEL	909 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL	150 ppm
<b>Alberta</b>	OEL TWA	606 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	100 ppm
<b>British Columbia</b>	OEL STEL	150 ppm
<b>British Columbia</b>	OEL TWA	100 ppm
<b>Manitoba</b>	OEL TWA	50 ppm (Dipropylene glycol methyl ether)
<b>New Brunswick</b>	OEL STEL	150 ppm
<b>New Brunswick</b>	OEL TWA	100 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA	50 ppm (Dipropylene glycol methyl ether)
<b>Nova Scotia</b>	OEL TWA	50 ppm (Dipropylene glycol methyl ether)
<b>Nunavut</b>	OEL STEL	150 ppm
<b>Nunavut</b>	OEL TWA	100 ppm
<b>Northwest Territories</b>	OEL STEL	150 ppm
<b>Northwest Territories</b>	OEL TWA	100 ppm
<b>Ontario</b>	OEL TWAEV	150 ppm

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Ontario	OEL TWAEV	100 ppm
Prince Edward Island	OEL TWA	50 ppm (Dipropylene glycol methyl ether)
Québec	VECD (OEL STEV)	909 mg/m <sup>3</sup>
Québec	VECD (OEL STEV)	150 ppm
Québec	VEMP (OEL TWAEV)	606 mg/m <sup>3</sup>
Québec	VEMP (OEL TWAEV)	100 ppm
Saskatchewan	OEL STEL	150 ppm
Saskatchewan	OEL TWA	100 ppm

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves. When needed, wear protective gloves to protect against thermal and/or mechanical hazards.

**Eye and Face Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Silver grey to grey black
Odor	: Metallic luster
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: 2800 °F (1537.78 °C)
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Specific Gravity	: No data available
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

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Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7). Metallic dusts may ignite or explode.

### 10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials. Avoid creating or spreading dust. Dust, chips, or ribbons can be ignited more easily, by an ignition source, by improper machining, or by spontaneous combustion if finely divided and damp.

### 10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers. Mineral acids. Water. Corrosive substances in contact with metals may produce flammable hydrogen gas.

### 10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Metal oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Not classified.

**Acute Toxicity (Dermal):** Not classified.

**Acute Toxicity (Inhalation):** Not classified.

#### LD50 and LC50 Data:

No additional information available

**Skin Corrosion/Irritation:** Not classified.

**Eye Damage/Irritation:** Not classified.

**Respiratory or Skin Sensitization:** Not classified.

**Germ Cell Mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified. (All compounds classified as STOT-RE (Manganese) in this product act primarily through inhalation. However, because these compounds are not respirable and are bound within the product, the product itself is not classified.)

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (Single Exposure):** Not classified.

**Aspiration Hazard:** Not classified.

**Symptoms/Injuries After Inhalation:** Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

**Symptoms/Injuries After Skin Contact:** Contact with fumes or metal powder will irritate skin. Contact with hot, molten metal will cause thermal burns.

**Symptoms/Injuries After Eye Contact:** During metal processing, dusts caused from physical alteration will likely cause eye irritation. Fumes from thermal decomposition or molten material will likely be irritating to the eyes. Risk of thermal burns on contact with molten product.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** Overexposure to metal fumes may result metal fume fever (chills, muscle aches, nausea, fever, dry throat, cough, weakness, lassitude), disturbances in smell and/or taste, and possible discoloration of skin, hair and mucous membranes; discoloration may become permanent.

### 11.2. Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

<b>Chromium (7440-47-3)</b>	
LD50 Oral Rat	> 5000 mg/kg
LC50 Inhalation Rat	> 5.41 mg/l/4h
<b>Manganese (7439-96-5)</b>	
LD50 Oral Rat	> 2000 mg/kg

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<b>LC50 Inhalation Rat</b>	> 5.14 mg/l/4h
<b>Methyl ethyl ketone (78-93-3)</b>	
LD50 Oral Rat	2483 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rat	> 10 ml/kg
LD50 Dermal Rabbit	5000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation Rat	34.5 mg/l/4h
<b>Ethylbenzene (100-41-4)</b>	
LD50 Oral Rat	3500 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rabbit	15400 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation Rat	17.2 mg/l/4h (Exposure time: 4 h)
<b>2-Heptanone (110-43-0)</b>	
LD50 Oral Rat	> 1600 mg/kg
LD50 Dermal Rabbit	10300 mg/kg (Source: ECHA_API)
LC50 Inhalation Rat	> 16.7 mg/l/4h
LC50 Inhalation Rat	2000 – 4000 ppm (Exposure time: 6 h Source: EPA_HPVS)
ATE US/CA (oral)	500.00 mg/kg body weight
ATE US/CA (dermal)	10,300.00 mg/kg body weight
ATE US/CA (gas)	2,000.00 ppmV/4h
ATE US/CA (vapors)	11.00 mg/l/4h
ATE US/CA (dust, mist)	1.50 mg/l/4h
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 4350 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation Rat	29.08 mg/l/4h
ATE US/CA (dermal)	1,100.00 mg/kg body weight
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
LD50 Oral Rat	3280 – 3550 mg/kg
LD50 Dermal Rabbit	> 3160 mg/kg (No mortalities)
LC50 Inhalation Rat	18 g/m <sup>3</sup> (Exposure time: 4 h)
LC50 Inhalation Rat	10.8 mg/l/4h
<b>Benzene, trimethyl- (25551-13-7)</b>	
LD50 Oral Rat	8970 mg/kg (Source: NLM_CIP)
<b>Isopropylbenzene (98-82-8)</b>	
LD50 Oral Rat	2260 mg/kg
LD50 Dermal Rabbit	10000 mg/kg
LC50 Inhalation Rat	> 3577 ppm (Exposure time: 6 h Source: JAPAN_GHS)
LC50 Inhalation Rat	39.3 mg/l/4h
ATE US/CA (dermal)	10,000.00 mg/kg body weight
ATE US/CA (vapors)	9.83 mg/l/4h
<b>1,3,5-Trimethylbenzene (108-67-8)</b>	
LC50 Inhalation Rat	24 g/m <sup>3</sup> (Exposure time: 4 h Source: NLM_CIP)
<b>Pitch, coal tar, high-temperature (65996-93-2)</b>	
LD50 Oral Rat	> 15000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>	
LD50 Oral Rat	13 g/kg (Source: NLM_CIP)
LD50 Dermal Rabbit	> 3300 mg/kg (Source: ECHA_API)
LC50 Inhalation Rat	33 mg/l/4h
<b>Acetone (67-64-1)</b>	

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<b>LD50 Oral Rat</b>	5800 mg/kg (Species: Sprague-Dawley)
<b>LD50 Dermal Rabbit</b>	7400 mg/kg
<b>LC50 Inhalation Rat</b>	44 g/m <sup>3</sup>
<b>Triethylenetetramine (112-24-3)</b>	
<b>LD50 Oral Rat</b>	2500 mg/kg (Source: NLM_CIP)
<b>LD50 Dermal Rabbit</b>	550 mg/kg (Source: OECD_SIDS)
<b>Quartz (14808-60-7)</b>	
<b>LD50 Oral Rat</b>	> 5000 mg/kg
<b>LD50 Dermal Rat</b>	> 5000 mg/kg
<b>Toluene (108-88-3)</b>	
<b>LD50 Oral Rat</b>	5580 mg/kg (Source: EU-RAR)
<b>LD50 Dermal Rabbit</b>	12000 mg/kg (Source: JAPAN_GHS)
<b>LC50 Inhalation Rat</b>	12.5 mg/l/4h
<b>Silicic acid (H4SiO4), tetraethyl ester (78-10-4)</b>	
<b>LD50 Oral Rat</b>	6270 mg/kg
<b>LD50 Dermal Rabbit</b>	5878 mg/kg
<b>LC50 Inhalation Rat</b>	10 mg/l
<b>Ethyl alcohol (64-17-5)</b>	
<b>LD50 Oral Rat</b>	10470 mg/kg
<b>LD50 Dermal Rabbit</b>	> 15800 mg/kg
<b>LC50 Inhalation Rat</b>	133.8 mg/l/4h
<b>Silica, amorphous (7631-86-9)</b>	
<b>LD50 Oral Rat</b>	7900 mg/kg (Source: ATSDR)
<b>LD50 Dermal Rabbit</b>	> 2000 mg/kg (No deaths)
<b>LC50 Inhalation Rat</b>	> 58.8 mg/l/4h
<b>Naphthalene (91-20-3)</b>	
<b>LD50 Oral Rat</b>	533 – 710 mg/kg
<b>LD50 Dermal Rat</b>	> 16000 mg/kg
<b>LD50 Dermal Rabbit</b>	1120 mg/kg (Source: NZ_CCID)
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>	
<b>LD50 Oral Rat</b>	> 5000 mg/kg (Species: Sprague-Dawley)
<b>LD50 Dermal Rabbit</b>	9500 mg/kg (Source: NLM_CIP)
<b>Chromium (7440-47-3)</b>	
<b>IARC Group</b>	3
<b>Ethylbenzene (100-41-4)</b>	
<b>IARC Group</b>	2B
<b>National Toxicology Program (NTP) Status</b>	Evidence of Carcinogenicity.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
<b>IARC Group</b>	3
<b>Isopropylbenzene (98-82-8)</b>	
<b>IARC Group</b>	2B
<b>National Toxicology Program (NTP) Status</b>	Reasonably anticipated to be Human Carcinogen, Evidence of Carcinogenicity.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Pitch, coal tar, high-temperature (65996-93-2)</b>	
<b>IARC Group</b>	1
<b>National Toxicology Program (NTP) Status</b>	Known Human Carcinogens.



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<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Talc (Mg3H2(SiO3)4) (14807-96-6)</b>	
<b>IARC Group</b>	3
<b>National Toxicology Program (NTP) Status</b>	Evidence of Carcinogenicity.
<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>	
<b>IARC Group</b>	2B
<b>National Toxicology Program (NTP) Status</b>	Evidence of Carcinogenicity.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Quartz (14808-60-7)</b>	
<b>IARC Group</b>	1
<b>National Toxicology Program (NTP) Status</b>	Known Human Carcinogens.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Toluene (108-88-3)</b>	
<b>IARC Group</b>	3
<b>Silica, amorphous (7631-86-9)</b>	
<b>IARC Group</b>	3
<b>Naphthalene (91-20-3)</b>	
<b>IARC Group</b>	2B
<b>National Toxicology Program (NTP) Status</b>	Reasonably anticipated to be Human Carcinogen.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General:** Not classified.

<b>Manganese (7439-96-5)</b>	
<b>LC50 Fish 1</b>	> 3.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)
<b>NOEC Chronic Fish</b>	3.6 mg/l (Exposure time: 96h; Species: Oncorhynchus mykiss)
<b>Methyl ethyl ketone (78-93-3)</b>	
<b>LC50 Fish 1</b>	3130 (3130 – 3320) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<b>EC50 - Crustacea [1]</b>	520 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>EC50 - Crustacea [2]</b>	5091 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>NOEC Chronic Algae</b>	93 mg/l
<b>Ethylbenzene (100-41-4)</b>	
<b>LC50 Fish 1</b>	11 – 18 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
<b>EC50 - Crustacea [1]</b>	1.8 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>LC50 Fish 2</b>	2.661 – 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: EPA)
<b>NOEC Chronic Crustacea</b>	0.956 mg/l
<b>2-Heptanone (110-43-0)</b>	
<b>LC50 Fish 1</b>	131 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
<b>LC50 Fish 1</b>	3.3 mg/l
<b>EC50 - Crustacea [1]</b>	3.82 mg/l (Exposure time: 48 h - Species: water flea)
<b>LC50 Fish 2</b>	2.661 (2.661 – 4.093) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>NOEC Chronic Crustacea</b>	0.96 mg/l
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	

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<b>LC50 Fish 1</b>	7.19 (7.19 – 8.28) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<b>EC50 - Crustacea [1]</b>	6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Benzene, trimethyl- (25551-13-7)</b>	
<b>LC50 Fish 1</b>	7.72 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<b>EC50 - Crustacea [1]</b>	5.4 mg/l
<b>Isopropylbenzene (98-82-8)</b>	
<b>LC50 Fish 1</b>	6.04 – 6.61 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
<b>EC50 - Crustacea [1]</b>	0.6 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>LC50 Fish 2</b>	4.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: IUCLID)
<b>EC50 - Crustacea [2]</b>	7.9 – 14.1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>NOEC Chronic Crustacea</b>	0.35 mg/l
<b>NOEC Chronic Algae</b>	0.22 mg/l
<b>1,3,5-Trimethylbenzene (108-67-8)</b>	
<b>LC50 Fish 1</b>	3.48 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
<b>EC50 - Crustacea [1]</b>	6 mg/l
<b>NOEC Chronic Crustacea</b>	0.4 mg/l
<b>1,2,3-Trimethylbenzene (526-73-8)</b>	
<b>EC50 - Crustacea [1]</b>	2.7 mg/l
<b>NOEC Chronic Algae</b>	0.38 mg/l
<b>Talc (Mg3H2(SiO3)4) (14807-96-6)</b>	
<b>LC50 Fish 1</b>	> 100 g/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>	
<b>LC50 Fish 1</b>	3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
<b>EC50 - Crustacea [1]</b>	3.68 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Acetone (67-64-1)</b>	
<b>LC50 Fish 1</b>	4144.846 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
<b>EC50 - Crustacea [1]</b>	1679.66 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>LC50 Fish 2</b>	6210 (6210 – 8120) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>EC50 - Crustacea [2]</b>	12600 (12600 – 12700) mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Triethylenetetramine (112-24-3)</b>	
<b>LC50 Fish 1</b>	570 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static] Source: IUCLID)
<b>EC50 - Crustacea [1]</b>	31.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>LC50 Fish 2</b>	495 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: IUCLID)
<b>ErC50 algae</b>	27 mg/l
<b>NOEC Chronic Algae</b>	0.468 mg/l
<b>Toluene (108-88-3)</b>	
<b>LC50 Fish 1</b>	15.22 (15.22 – 19.05) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<b>EC50 - Crustacea [1]</b>	5.46 (5.46 – 9.83) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>LC50 Fish 2</b>	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
<b>EC50 - Crustacea [2]</b>	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>NOEC Chronic Fish</b>	1.4 mg/l (Oncorhynchus kisutch)
<b>NOEC Chronic Crustacea</b>	0.74 mg/l (Ceriodaphnia dubia)
<b>Silicic acid (H4SiO4), tetraethyl ester (78-10-4)</b>	
<b>LC50 Fish 1</b>	> 245 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
<b>NOEC Chronic Algae</b>	100 mg/l

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<b>Ethyl alcohol (64-17-5)</b>	
LC50 Fish 1	11200 mg/l
EC50 - Crustacea [1]	9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
ErC50 algae	1000 mg/l
NOEC Chronic Crustacea	9.6 mg/l
<b>Silica, amorphous (7631-86-9)</b>	
LC50 Fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static] Source: IUCLID)
EC50 - Crustacea [1]	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)
<b>Naphthalene (91-20-3)</b>	
LC50 Fish 1	5.74 – 6.44 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	2.16 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
EC50 - Crustacea [2]	1.96 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])
ErC50 algae	0.41 mg/l
NOEC Chronic Fish	0.12 mg/l
NOEC Chronic Crustacea	0.6 mg/l
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>	
LC50 Fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### 12.2. Persistence and Degradability

<b>Coated Sheet Pile</b>	
Persistence and Degradability	Not established. Inorganic product which cannot be eliminated from water by biological purification processes.
<b>Acetone (67-64-1)</b>	
Persistence and Degradability	Readily biodegradable in water.
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>	
Persistence and Degradability	Readily biodegradable.

### 12.3. Bioaccumulative Potential

<b>Coated Sheet Pile</b>	
Bioaccumulative Potential	Not established.
<b>Methyl ethyl ketone (78-93-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.3 (at 40 °C (at pH 7))
<b>Ethylbenzene (100-41-4)</b>	
BCF Fish 1	(15 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	3.6 (at 20 °C (at pH 7.84))
<b>2-Heptanone (110-43-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.26 (at 30 °C (at pH 7))
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
BCF Fish 1	0.6 (0.6 – 15)
Partition coefficient n-octanol/water (Log Pow)	2.77 – 3.15
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	

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Partition coefficient n-octanol/water (Log Pow)	3.63
<b>Isopropylbenzene (98-82-8)</b>	
BCF Fish 1	(35.5 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	3.55 (at 23 °C)
<b>Pitch, coal tar, high-temperature (65996-93-2)</b>	
BCF Fish 1	(0.13 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	6.04
<b>Talc (Mg3H2(SiO3)4) (14807-96-6)</b>	
BCF Fish 1	(no known bioaccumulation)
<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.7 (at 25 °C)
<b>Acetone (67-64-1)</b>	
BCF Fish 1	(0.69 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	-0.24
<b>Triethylenetetramine (112-24-3)</b>	
BCF Fish 1	(no bioaccumulation expected)
Partition coefficient n-octanol/water (Log Pow)	-1.4
<b>Toluene (108-88-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.73 (at 20 °C (at pH 7)
<b>Ethyl alcohol (64-17-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.35 (at 24 °C (at pH 7.4)
<b>Silica, amorphous (7631-86-9)</b>	
BCF Fish 1	(no bioaccumulation expected)
<b>Naphthalene (91-20-3)</b>	
BCF Fish 1	36.5 – 168 (whole body w.w.)
Partition coefficient n-octanol/water (Log Pow)	3.4 (at 25 °C (at pH 7-7.5)
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.35 (at 25 °C (at pH 7)
Bioaccumulative Potential	Not expected to bioaccumulate.

#### 12.4. Mobility in Soil

No additional information available

#### 12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Additional Information:** Recover or recycle if possible.

**Ecology - Waste Materials:** Avoid release to the environment.

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#### SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

**14.1. In Accordance with DOT**

Not regulated for transport

**14.2. In Accordance with IMDG**

Not regulated for transport

**14.3. In Accordance with IATA**

Not regulated for transport

**14.4. In Accordance with TDG**

Not regulated for transport

#### SECTION 15: REGULATORY INFORMATION

**15.1. US Federal Regulations**

<b>Chromium (7440-47-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	5000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Manganese (7439-96-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Methyl ethyl ketone (78-93-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>CERCLA RQ</b>	5000 lb
<b>Ethylbenzene (100-41-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	1000 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>2-Heptanone (110-43-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Benzene, trimethyl- (25551-13-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Isopropylbenzene (98-82-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	5000 lb

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<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>1,3,5-Trimethylbenzene (108-67-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>1,2,3-Trimethylbenzene (526-73-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Pitch, coal tar, high-temperature (65996-93-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Talc (Mg3H2(SiO3)4) (14807-96-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Acetone (67-64-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>CERCLA RQ</b>	5000 lb
<b>Triethylenetetramine (112-24-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Quartz (14808-60-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Toluene (108-88-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	1000 lb
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Silicic acid (H4SiO4), tetraethyl ester (78-10-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Ethyl alcohol (64-17-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Silica, amorphous (7631-86-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Naphthalene (91-20-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	

### 15.2. US State Regulations

#### State or local regulations

##### California Proposition 65



**WARNING:** This product can expose you to chemicals including Ethylbenzene, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm.

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

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Ethylbenzene (100-41-4)	X			
Isopropylbenzene (98-82-8)	X			
Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)	X			

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Quartz (14808-60-7)	X		
Toluene (108-88-3)		X	
Naphthalene (91-20-3)	X		

### Chromium (7440-47-3)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Manganese (7439-96-5)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Methyl ethyl ketone (78-93-3)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Ethylbenzene (100-41-4)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### 2-Heptanone (110-43-0)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List

### Xylenes (o-, m-, p- isomers) (1330-20-7)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Benzene, 1,2,4-trimethyl- (95-63-6)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Benzene, trimethyl- (25551-13-7)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List

### Isopropylbenzene (98-82-8)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### 1,3,5-Trimethylbenzene (108-67-8)

U.S. - Massachusetts - Right To Know List

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<b>Pitch, coal tar, high-temperature (65996-93-2)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Talc (Mg3H2(SiO3)4) (14807-96-6)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Acetone (67-64-1)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
<b>Triethylenetetramine (112-24-3)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Quartz (14808-60-7)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Toluene (108-88-3)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
<b>Silicic acid (H4SiO4), tetraethyl ester (78-10-4)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Ethyl alcohol (64-17-5)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Silica, amorphous (7631-86-9)</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Mica (12001-26-2)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Naphthalene (91-20-3)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List



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### 15.3. Canadian Regulations

<b>Chromium (7440-47-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Manganese (7439-96-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Methyl ethyl ketone (78-93-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Ethylbenzene (100-41-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>2-Heptanone (110-43-0)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Benzene, trimethyl- (25551-13-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Isopropylbenzene (98-82-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>1,3,5-Trimethylbenzene (108-67-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>1,2,3-Trimethylbenzene (526-73-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Pitch, coal tar, high-temperature (65996-93-2)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>) (14807-96-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Acetone (67-64-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Triethylenetetramine (112-24-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Quartz (14808-60-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Toluene (108-88-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Silicic acid (H<sub>4</sub>SiO<sub>4</sub>), tetraethyl ester (78-10-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Ethyl alcohol (64-17-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Silica, amorphous (7631-86-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Mica (12001-26-2)</b>
Listed on the Canadian DSL (Domestic Substances List)

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<b>Naphthalene (91-20-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>
Listed on the Canadian DSL (Domestic Substances List)

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision** : 01/24/2025

**Revision**

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

**GHS Full Text Phrases:**

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H228	Flammable solid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

#### Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)

AU\_WES: Australia WES

CHEMVIEW: ChemView (U.S. Environmental Protection Agency)

EC\_RAR: European Commission Renewal Assessment Report

EC\_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits

FOOD\_JOURN: Food Research Journal (1956)

IARC: The International Agency for Research on Cancer

IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles

IUCLID: International Uniform Chemical Information Database

JAPAN\_GHS: Japan GHS Basis for Classification Data

JP\_J-CHECK: Japan J-Check

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ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports

ECHA\_API: European Chemicals Agency API

ECHA\_RAC: ECHA Committee for Risk Assessment

EFSA: European Food Safety Authority

EPA: U.S. Environmental Protection Agency

EPA\_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)

EPA\_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)

EPA\_HPVC: High Production Volume Chemicals (U.S. Environmental Protection Agency)

EPA\_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)

EU\_CLH: European Union Harmonised Classification and Labelling Proposal

EU\_RAR: European Union Risk Assessment Report

KR\_NIER: South Korea National Institute of Environmental Research Evaluations

NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme

NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)

NLM\_CIP: National Library of Medicine ChemID plus database

NLM\_HSDB: National Library of Medicine Hazardous Substance Data Bank

NLM\_PUBMED: National Library of Medicine PubMed database

NTP: National Toxicology Program

NZ\_CCID: New Zealand Chemical Classification and Information Database

OECD\_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)

OECD\_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)

WHO: World Health Organization

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

NA GHS SDS 2015 (Can, US)