

# Abrasive Coated Sanding Belts

## 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: 10/21/2022 Version: 1.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Abrasive Coated Sanding Belts

**Synonyms:** AO, MX, Regular Belts

#### 1.2. Intended Use of the Product

Polishing various substrates i.e.: metals, wood, polycarbonates

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

##### Company

Micro-Surface Finishing Products, Inc.

1217 W 3rd St

PO Box 70

Wilton IA 52778

563.732.3240

www.micro-surface.com

#### 1.4. Emergency Telephone Number

**Emergency Number** : 563.732.3240

### 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

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

#### 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
Methyl ethyl ketone	Butan-2-one / 2-Butanone / Ethyl methyl ketone / Methyl acetone / MEK / Butanone / methyl ethyl ketone	(CAS-No.) 78-93-3	31 – 75	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> )	Aluminum oxide / .alpha.-Alumina / Alumina / Aluminium oxide / Aluminium oxide (Al <sub>2</sub> O <sub>3</sub> ) / .alpha.-Aluminum oxide / Dialuminum trioxide / Dialuminium trioxide / ALUMINA / Alundum	(CAS-No.) 1344-28-1	≤ 31	Not classified
Silicon carbide	Silicon carbide (SiC) / Silicon carbide, fibrous / Silicon carbide whiskers / Silicon carbide, non-fibrous / SILICON CARBIDE / silicon carbide / Silicon carbide fibres (with diameter <3 µm, length >5 µm and aspect ratio ≥3:1) / Silicon carbide fibres	(CAS-No.) 409-21-2	≤ 31	Carc. 1B, H350 STOT RE 1, H372
Cellulose	Microcrystalline cellulose /	(CAS-No.) 9004-34-6	2.4 – 2.6	Comb. Dust

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	CELLULOSE / Cellulose, microcrystalline / MICROCRYSTALLINE CELLULOSE			
Iron oxide (Fe2O3)	C.I. 77491 / C.I. Pigment Red 101 / Diiron trioxide / Ferric oxide / Iron sesquioxide / Iron(III) oxide / Red Iron Oxide / Rouge / CI 77491 / Iron trioxide / Sienna / Pigment Red 101 / Red iron oxide / Red iron oxide pigment / Iron Oxide Red / Diiron(III) trioxide / Iron oxide / Ferric oxide red / Iron oxide, red	(CAS-No.) 1309-37-1	≤ 0.75	Comb. Dust
Ammonium hydroxide	Ammonia, aqueous solution / Ammonium hydroxide ((NH4)(OH)) / Ammonia aqueous / Ammonia solution / AMMONIUM HYDROXIDE / Ammonia, aqueous / Ammonia solutions / Ammonia ...% / Ammonia water / Ammonia	(CAS-No.) 1336-21-6	< 0.2	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400
Ammonia	Ammonia, anhydrous / Free ammonia / Gaseous ammonia / AMMONIA / Non-ionic ammonia / ammonia	(CAS-No.) 7664-41-7	< 0.2	Flam. Gas 2, H221 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Ethyl acetate	Acetic acid, ethyl ester / Ethyl ethanoate / ETHYL ACETATE	(CAS-No.) 141-78-6	< 0.14	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Acetone	Dimethyl ketone / 2-Propanone / ACETONE / Propan-2-one / Propanone	(CAS-No.) 67-64-1	< 0.035	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Toluene	Benzene, methyl- / Methylbenzene / Phenylmethane / TOLUENE	(CAS-No.) 108-88-3	< 0.001	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
Benzene, 1,3-diisocyanatomethyl-	Toluene 2,4-(and 2,6)-diisocyanate / 2,4/2,6-Toluene diisocyanate (mixture) / 2,4-/2,6-Toluene diisocyanate / m-Toluene diisocyanate	(CAS-No.) 26471-62-5	< 0.001	Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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%).

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### 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).

**Inhalation:** Contact with dust from sanding: Using proper respiratory protection, move the exposed person to fresh air at once. Encourage exposed person to cough, spit out, and blow nose to remove dust. Immediately call a poison center, physician, or emergency medical service.

**Skin Contact:** Contact with dust from sanding: Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing. If exposed or concerned: Get medical advice/attention.

**Eye Contact:** Contact with dust from sanding: Immediately rinse with water for at least 15 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:** As shipped this product is not expected to be hazardous to human health. Contact with dust is unlikely in the event dust is formed it may produce the following symptoms: May cause cancer (inhalation). Causes damage to organs (respiratory organs) through prolonged or repeated exposure (inhalation). Causes serious eye irritation.

**Inhalation:** Contact with dust is unlikely in the event dust is formed it may produce the following symptoms: Dust may be harmful or cause irritation.

**Skin Contact:** Contact with dust is unlikely in the event dust is formed it may produce the following symptoms: Prolonged exposure may cause skin irritation, and an allergic reaction in sensitive individuals.

**Eye Contact:** Contact with dust is unlikely in the event dust is formed it may produce the following symptoms: Contact causes severe irritation with redness and swelling of the conjunctiva.

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

**Chronic Symptoms:** Repeated and longterm Contact with dust is unlikely in the event dust is formed it may produce the following symptoms: May cause cancer by inhalation. Causes damage to organs (respiratory organs) through prolonged or repeated exposure (inhalation).

#### 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:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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

**Fire Hazard:** Dust from sanding is combustible. Use care during sanding to minimize generation of dust.

**Explosion Hazard:** Product's dust can cause an explosion hazard in air.

**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.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses. Risk of dust explosion.

#### 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:** Do not get in eyes, on skin, or on clothing. Do not breathe dust. Avoid generating dust. Remove ignition sources. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

##### 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 to the environment.

### 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. Avoid generation of dust during clean-up of spills.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Contact competent authorities after a spill. Use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use only non-sparking tools.

### 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.

**Precautions for Safe Handling:** Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Avoid creating or spreading dust. Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

**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. Avoid creating or spreading dust. Use explosion-proof electrical, ventilating, lighting equipment. Proper grounding procedures to avoid static electricity should be followed.

**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. Store locked up/in a secure area.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

### 7.3. Specific End Use(s)

Polishing various substrates i.e.: metals, wood, polycarbonates

## 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.

Methyl ethyl ketone (78-93-3)		
USA ACGIH	ACGIH OEL TWA [ppm]	200 ppm
USA ACGIH	ACGIH OEL STEL [ppm]	300 ppm
USA ACGIH	BEI (BLV)	2 mg/l Parameter: MEK - Medium: urine - Sampling time: end of shift (nonspecific)
USA OSHA	OSHA PEL (TWA) [1]	590 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [2]	200 ppm
USA NIOSH	NIOSH REL (TWA)	590 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	200 ppm
USA NIOSH	NIOSH REL (STEL)	885 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL STEL [ppm]	300 ppm
USA IDLH	IDLH [ppm]	3000 ppm
Alberta	OEL STEL	885 mg/m <sup>3</sup>
Alberta	OEL STEL [ppm]	300 ppm
Alberta	OEL TWA	590 mg/m <sup>3</sup>
Alberta	OEL TWA [ppm]	200 ppm
British Columbia	OEL STEL [ppm]	100 ppm

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<b>British Columbia</b>	OEL TWA [ppm]	50 ppm
<b>Manitoba</b>	OEL STEL [ppm]	300 ppm
<b>Manitoba</b>	OEL TWA [ppm]	200 ppm
<b>New Brunswick</b>	OEL STEL	885 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL [ppm]	300 ppm
<b>New Brunswick</b>	OEL TWA	590 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	200 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	300 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	200 ppm
<b>Nova Scotia</b>	OEL STEL [ppm]	300 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	200 ppm
<b>Nunavut</b>	OEL STEL [ppm]	300 ppm
<b>Nunavut</b>	OEL TWA [ppm]	200 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	300 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	200 ppm
<b>Ontario</b>	OEL STEL [ppm]	300 ppm
<b>Ontario</b>	OEL TWA [ppm]	200 ppm
<b>Prince Edward Island</b>	OEL STEL [ppm]	300 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	200 ppm
<b>Québec</b>	VECD (OEL STEL)	300 mg/m <sup>3</sup>
<b>Québec</b>	VECD (OEL STEL) [ppm]	100 ppm
<b>Québec</b>	VEMP (OEL TWA)	150 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA) [ppm]	50 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	300 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	200 ppm
<b>Yukon</b>	OEL STEL	740 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	250 ppm
<b>Yukon</b>	OEL TWA	590 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	200 ppm
<b>Aluminum oxide (Al2O3) (1344-28-1)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	10 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
<b>Alberta</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA	10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
<b>Nunavut</b>	OEL STEL	20 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL	20 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA)	10 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-total dust)
<b>Saskatchewan</b>	OEL STEL	20 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL	20 mg/m <sup>3</sup> (Al2O3)
<b>Yukon</b>	OEL TWA	30 mppcf (Al2O3) 10 mg/m <sup>3</sup> (Al2O3)
<b>Iron oxide (Fe2O3) (1309-37-1)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	5 mg/m <sup>3</sup> (respirable particulate matter)
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	10 mg/m <sup>3</sup> (fume)

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		15 mg/m <sup>3</sup> (total dust (Rouge)) 5 mg/m <sup>3</sup> (respirable fraction (Rouge))
<b>USA NIOSH</b>	NIOSH REL (TWA)	5 mg/m <sup>3</sup> (dust and fume)
<b>USA IDLH</b>	IDLH	2500 mg/m <sup>3</sup> (dust and fume)
<b>Alberta</b>	OEL TWA	5 mg/m <sup>3</sup> (respirable)
<b>British Columbia</b>	OEL STEL	10 mg/m <sup>3</sup> (fume)
<b>British Columbia</b>	OEL TWA	10 mg/m <sup>3</sup> (regulated under Rouge-total particulate (Rouge)) 3 mg/m <sup>3</sup> (regulated under Rouge: particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate (Rouge)) 5 mg/m <sup>3</sup> (dust and fume)
<b>Manitoba</b>	OEL TWA	5 mg/m <sup>3</sup> (respirable particulate matter)
<b>New Brunswick</b>	OEL TWA	5 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica, dust and fume) 10 mg/m <sup>3</sup> (regulated under Rouge-particulate matter containing no Asbestos and <1% Crystalline silica)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	5 mg/m <sup>3</sup> (respirable particulate matter)
<b>Nova Scotia</b>	OEL TWA	5 mg/m <sup>3</sup> (respirable particulate matter)
<b>Nunavut</b>	OEL STEL	10 mg/m <sup>3</sup> (dust and fume) 20 mg/m <sup>3</sup> (regulated under Rouge)
<b>Nunavut</b>	OEL TWA	5 mg/m <sup>3</sup> (dust and fume) 10 mg/m <sup>3</sup> (regulated under Rouge)
<b>Northwest Territories</b>	OEL STEL	10 mg/m <sup>3</sup> (dust and fume) 20 mg/m <sup>3</sup> (regulated under Rouge)
<b>Northwest Territories</b>	OEL TWA	5 mg/m <sup>3</sup> (dust and fume) 10 mg/m <sup>3</sup> (regulated under Rouge)
<b>Ontario</b>	OEL TWA	5 mg/m <sup>3</sup> (respirable particulate matter)
<b>Prince Edward Island</b>	OEL TWA	5 mg/m <sup>3</sup> (respirable particulate matter)
<b>Québec</b>	VEMP (OEL TWA)	5 mg/m <sup>3</sup> (dust and fume)
<b>Saskatchewan</b>	OEL STEL	10 mg/m <sup>3</sup> (dust and fume) 20 mg/m <sup>3</sup> (regulated under Rouge)
<b>Saskatchewan</b>	OEL TWA	5 mg/m <sup>3</sup> (dust and fume) 10 mg/m <sup>3</sup> (regulated under Rouge)
<b>Yukon</b>	OEL STEL	10 mg/m <sup>3</sup> (fume) 20 mg/m <sup>3</sup> (regulated under Rouge)
<b>Yukon</b>	OEL TWA	5 mg/m <sup>3</sup> (fume) 30 mppcf (regulated under Rouge) 10 mg/m <sup>3</sup> (regulated under Rouge)
<b>Ammonia (7664-41-7)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	25 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	35 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	35 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	50 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	18 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	25 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	27 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL STEL [ppm]	35 ppm
<b>USA IDLH</b>	IDLH [ppm]	300 ppm
<b>Alberta</b>	OEL STEL	24 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL [ppm]	35 ppm
<b>Alberta</b>	OEL TWA	17 mg/m <sup>3</sup>

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<b>Alberta</b>	OEL TWA [ppm]	25 ppm
<b>British Columbia</b>	OEL STEL [ppm]	35 ppm
<b>British Columbia</b>	OEL TWA [ppm]	25 ppm
<b>Manitoba</b>	OEL STEL [ppm]	35 ppm
<b>Manitoba</b>	OEL TWA [ppm]	25 ppm
<b>New Brunswick</b>	OEL STEL	24 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL [ppm]	35 ppm
<b>New Brunswick</b>	OEL TWA	17 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	25 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	35 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	25 ppm
<b>Nova Scotia</b>	OEL STEL [ppm]	35 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	25 ppm
<b>Nunavut</b>	OEL STEL [ppm]	35 ppm
<b>Nunavut</b>	OEL TWA [ppm]	25 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	35 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	25 ppm
<b>Ontario</b>	OEL STEL [ppm]	35 ppm
<b>Ontario</b>	OEL TWA [ppm]	25 ppm
<b>Prince Edward Island</b>	OEL STEL [ppm]	35 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	25 ppm
<b>Québec</b>	VECD (OEL STEL)	24 mg/m <sup>3</sup>
<b>Québec</b>	VECD (OEL STEL) [ppm]	35 ppm
<b>Québec</b>	VEMP (OEL TWA)	17 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA) [ppm]	25 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	35 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	25 ppm
<b>Yukon</b>	OEL STEL	30 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	40 ppm
<b>Yukon</b>	OEL TWA	18 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	25 ppm
<b>Cellulose (9004-34-6)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	10 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
<b>USA NIOSH</b>	NIOSH REL (TWA)	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
<b>Alberta</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA	10 mg/m <sup>3</sup> (total dust) 3 mg/m <sup>3</sup> (respirable fraction)
<b>Manitoba</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Newfoundland &amp; Labrador</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Nova Scotia</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL STEL	20 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL	20 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Ontario</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Prince Edward Island</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA)	10 mg/m <sup>3</sup> (paper fibres-total dust)
<b>Saskatchewan</b>	OEL STEL	20 mg/m <sup>3</sup>

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Saskatchewan	OEL TWA	10 mg/m <sup>3</sup>
Yukon	OEL STEL	20 mg/m <sup>3</sup>
Yukon	OEL TWA	30 mppcf 10 mg/m <sup>3</sup>
<b>Ethyl acetate (141-78-6)</b>		
USA ACGIH	ACGIH OEL TWA [ppm]	400 ppm
USA OSHA	OSHA PEL (TWA) [1]	1400 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [2]	400 ppm
USA NIOSH	NIOSH REL (TWA)	1400 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	400 ppm
USA IDLH	IDLH [ppm]	2000 ppm (10% LEL)
Alberta	OEL TWA	1440 mg/m <sup>3</sup>
Alberta	OEL TWA [ppm]	400 ppm
British Columbia	OEL TWA [ppm]	150 ppm
Manitoba	OEL TWA [ppm]	400 ppm
New Brunswick	OEL TWA	1440 mg/m <sup>3</sup>
New Brunswick	OEL TWA [ppm]	400 ppm
Newfoundland & Labrador	OEL TWA [ppm]	400 ppm
Nova Scotia	OEL TWA [ppm]	400 ppm
Nunavut	OEL STEL [ppm]	500 ppm
Nunavut	OEL TWA [ppm]	400 ppm
Northwest Territories	OEL STEL [ppm]	500 ppm
Northwest Territories	OEL TWA [ppm]	400 ppm
Ontario	OEL TWA [ppm]	400 ppm
Prince Edward Island	OEL TWA [ppm]	400 ppm
Québec	VEMP (OEL TWA)	1440 mg/m <sup>3</sup>
Québec	VEMP (OEL TWA) [ppm]	400 ppm
Saskatchewan	OEL STEL [ppm]	500 ppm
Saskatchewan	OEL TWA [ppm]	400 ppm
Yukon	OEL STEL	1400 mg/m <sup>3</sup>
Yukon	OEL STEL [ppm]	400 ppm
Yukon	OEL TWA	1400 mg/m <sup>3</sup>
Yukon	OEL TWA [ppm]	400 ppm
<b>Acetone (67-64-1)</b>		
USA ACGIH	ACGIH OEL TWA [ppm]	250 ppm
USA ACGIH	ACGIH OEL STEL [ppm]	500 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA ACGIH	BEI (BLV)	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift (nonspecific)
USA OSHA	OSHA PEL (TWA) [1]	2400 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [2]	1000 ppm
USA NIOSH	NIOSH REL (TWA)	590 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	250 ppm
USA IDLH	IDLH [ppm]	2500 ppm (10% LEL)
Alberta	OEL STEL	1800 mg/m <sup>3</sup>
Alberta	OEL STEL [ppm]	750 ppm
Alberta	OEL TWA	1200 mg/m <sup>3</sup>
Alberta	OEL TWA [ppm]	500 ppm
British Columbia	OEL STEL [ppm]	500 ppm
British Columbia	OEL TWA [ppm]	250 ppm
Manitoba	OEL STEL [ppm]	500 ppm



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<b>Manitoba</b>	OEL TWA [ppm]	250 ppm
<b>New Brunswick</b>	OEL STEL	1782 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL [ppm]	750 ppm
<b>New Brunswick</b>	OEL TWA	1188 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	500 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	500 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	250 ppm
<b>Nova Scotia</b>	OEL STEL [ppm]	500 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	250 ppm
<b>Nunavut</b>	OEL STEL [ppm]	750 ppm
<b>Nunavut</b>	OEL TWA [ppm]	500 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	750 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	500 ppm
<b>Ontario</b>	OEL STEL [ppm]	500 ppm
<b>Ontario</b>	OEL TWA [ppm]	250 ppm
<b>Prince Edward Island</b>	OEL STEL [ppm]	500 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	250 ppm
<b>Québec</b>	VECD (OEL STEL)	2380 mg/m <sup>3</sup>
<b>Québec</b>	VECD (OEL STEL) [ppm]	1000 ppm
<b>Québec</b>	VEMP (OEL TWA)	1190 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA) [ppm]	500 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	750 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	500 ppm
<b>Yukon</b>	OEL STEL	3000 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	1250 ppm
<b>Yukon</b>	OEL TWA	2400 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	1000 ppm
<b>Toluene (108-88-3)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	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) [2]	200 ppm
<b>USA OSHA</b>	OSHA PEL C [ppm]	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 [ppm]	100 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	560 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL STEL [ppm]	150 ppm
<b>USA IDLH</b>	IDLH [ppm]	500 ppm
<b>Alberta</b>	OEL TWA	188 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	50 ppm
<b>British Columbia</b>	OEL TWA [ppm]	20 ppm
<b>Manitoba</b>	OEL TWA [ppm]	20 ppm
<b>New Brunswick</b>	OEL TWA	188 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	50 ppm

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<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	20 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	20 ppm
<b>Nunavut</b>	OEL STEL [ppm]	60 ppm
<b>Nunavut</b>	OEL TWA [ppm]	50 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	60 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	50 ppm
<b>Ontario</b>	OEL TWA [ppm]	20 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	20 ppm
<b>Québec</b>	VEMP (OEL TWA)	188 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA) [ppm]	50 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	60 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	50 ppm
<b>Yukon</b>	OEL STEL	560 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	150 ppm
<b>Yukon</b>	OEL TWA	375 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	100 ppm
<b>Benzene, 1,3-diisocyanatomethyl- (26471-62-5)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	0.001 ppm (inhalable fraction and vapor)
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	0.005 ppm (inhalable fraction and vapor)
<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, dermal sensitizer
<b>USA ACGIH</b>	BEI (BLV)	5 µg/g Kreatinin Parameter: Toluenediamine isomers with hydrolysis - Medium: urine - Sampling time: end of shift (nonspecific)
<b>Alberta</b>	OEL C	0.1 mg/m <sup>3</sup>
<b>Alberta</b>	OEL Ceiling [ppm]	0.02 ppm
<b>Alberta</b>	OEL TWA	0.04 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	0.005 ppm
<b>Manitoba</b>	OEL STEL [ppm]	0.005 ppm (inhalable fraction and vapor)
<b>Manitoba</b>	OEL TWA [ppm]	0.001 ppm (inhalable fraction and vapor)
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	0.005 ppm (inhalable fraction and vapor)
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	0.001 ppm (inhalable fraction and vapor)
<b>Nova Scotia</b>	OEL STEL [ppm]	0.005 ppm (inhalable fraction and vapor)
<b>Nova Scotia</b>	OEL TWA [ppm]	0.001 ppm (inhalable fraction and vapor)
<b>Ontario</b>	OEL Ceiling [ppm]	0.02 ppm (designated substances regulation (Isocyanates, organic compounds))
<b>Ontario</b>	OEL STEL [ppm]	0.005 ppm (inhalable fraction and vapor)
<b>Ontario</b>	OEL TWA [ppm]	0.005 ppm (designated substances regulation (Isocyanates, organic compounds))
<b>Prince Edward Island</b>	OEL STEL [ppm]	0.005 ppm (inhalable fraction and vapor)
<b>Prince Edward Island</b>	OEL TWA [ppm]	0.001 ppm (inhalable fraction and vapor)
<b>Québec</b>	VECD (OEL STEL)	0.14 mg/m <sup>3</sup> (Toluene diisocyanate (mixed isomers))
<b>Québec</b>	VECD (OEL STEL) [ppm]	0.02 ppm (Toluene diisocyanate (mixed isomers))
<b>Québec</b>	VEMP (OEL TWA)	0.036 mg/m <sup>3</sup> (Toluene diisocyanate (isomers mixture))
<b>Québec</b>	VEMP (OEL TWA) [ppm]	0.005 ppm (Toluene diisocyanate (isomers mixture))
<b>Silicon carbide (409-21-2)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	10 mg/m <sup>3</sup> (nonfibrous, inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica) 3 mg/m <sup>3</sup> (nonfibrous, respirable particulate matter, particulate matter containing no asbestos and <1%

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		crystalline silica) 0.1 fibers/cm <sup>3</sup> (as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers, including whiskers, length >5 µm, aspect ratio >=3:1)
<b>USA ACGIH</b>	ACGIH chemical category	Suspected Human Carcinogen fibrous, including whiskers
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
<b>USA NIOSH</b>	NIOSH REL (TWA)	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
<b>Alberta</b>	OEL TWA	10 mg/m <sup>3</sup> (nonfibrous-total particulate) 3 mg/m <sup>3</sup> (nonfibrous-respirable particulate) 0.1 fibers/cm <sup>3</sup> (fibrous, including whiskers)
<b>British Columbia</b>	OEL TWA	10 mg/m <sup>3</sup> (nonfibrous-inhalable) 3 mg/m <sup>3</sup> (nonfibrous-respirable) 0.1 fibers/cm <sup>3</sup> (fibrous, including whiskers)
<b>Manitoba</b>	OEL TWA	10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter) 3 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm <sup>3</sup> (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers)
<b>New Brunswick</b>	OEL TWA	10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter) 3 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm <sup>3</sup> (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers)
<b>Nova Scotia</b>	OEL TWA	10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter) 3 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm <sup>3</sup> (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers)
<b>Nunavut</b>	OEL STEL	20 mg/m <sup>3</sup> (non-fibrous-inhalable fraction) 6 mg/m <sup>3</sup> (non-fibrous-respirable fraction)
<b>Nunavut</b>	OEL TWA	10 mg/m <sup>3</sup> (non-fibrous-inhalable fraction)

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		3 mg/m <sup>3</sup> (non-fibrous-respirable fraction) 0.1 fibers/cm <sup>3</sup> (fibrous, including whiskers-respirable fibres)
<b>Northwest Territories</b>	OEL STEL	20 mg/m <sup>3</sup> (non-fibrous-inhalable fraction) 6 mg/m <sup>3</sup> (non-fibrous-respirable fraction)
<b>Northwest Territories</b>	OEL TWA	10 mg/m <sup>3</sup> (non-fibrous-inhalable fraction) 3 mg/m <sup>3</sup> (non-fibrous-respirable fraction) 0.1 fibers/cm <sup>3</sup> (fibrous, including whiskers-respirable fibres)
<b>Ontario</b>	OEL TWA	10 mg/m <sup>3</sup> (non-fibrous, particulate matter containing no Asbestos and <1% Crystalline silica-inhalable fraction) 3 mg/m <sup>3</sup> (non-fibrous, particulate matter containing no Asbestos and <1% Crystalline silica-respirable fraction) 0.1 fibers/cm <sup>3</sup> (fibrous, including whiskers, fibres >5 µm in length and an aspect ratio >=3:1 as determined by the membrane filter method at 400-450 times magnification (4-mm objective), using phase-contrast illumination-respirable fraction)
<b>Prince Edward Island</b>	OEL TWA	10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter) 3 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm <sup>3</sup> (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers)
<b>Québec</b>	VEMP (OEL TWA)	10 mg/m <sup>3</sup> (non fibrous, containing no Asbestos and <1% Crystalline silica-total dust) 3 mg/m <sup>3</sup> (non fibrous, containing no Asbestos and <1% Crystalline silica-respirable dust)
<b>Saskatchewan</b>	OEL STEL	20 mg/m <sup>3</sup> (nonfibrous, inhalable fraction) 6 mg/m <sup>3</sup> (nonfibrous, respirable fraction)
<b>Saskatchewan</b>	OEL TWA	0.1 fibers/cm <sup>3</sup> (including whiskers-fibrous, respirable fibres) 10 mg/m <sup>3</sup> (nonfibrous, inhalable fraction) 3 mg/m <sup>3</sup> (nonfibrous, respirable fraction)
<b>Yukon</b>	OEL STEL	20 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	30 mppcf 10 mg/m <sup>3</sup>

## 8.2. Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

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**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



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

**Hand Protection:** Wear protective gloves.

**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	: According to product specification
Odor	: No odors that outgas from this product contain Hazardous Air Pollutants
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
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	: 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:

Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

### 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. Sparks, heat, open flame and other sources of ignition. Dust accumulation (to minimize explosion hazard).

### 10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Metal oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects - Product

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**Likely routes of exposure:** Inhalation. Eye contact. Dermal.

**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 (Because of the product's final form, the overall product is not classified for eye damage – dust will cause eye irritation.)

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified (All compounds classified as carcinogens in this product act via inhalation. Because of the product's final form, the overall product is not classified as a carcinogen.)

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified (All compounds classified as carcinogens in this product act via inhalation. Because of the product's final form, the overall product is not classified as a STOT-RE.)

**Reproductive Toxicity:** Not classified

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

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Contact with dust is unlikely in the event dust is formed it may produce the following symptoms: Dust may be harmful or cause irritation.

**Symptoms/Injuries After Skin Contact:** Contact with dust is unlikely in the event dust is formed it may produce the following symptoms: Prolonged exposure may cause skin irritation, and an allergic reaction in sensitive individuals.

**Symptoms/Injuries After Eye Contact:** Contact with dust is unlikely in the event dust is formed it may produce the following symptoms: Contact causes severe irritation with redness and swelling of the conjunctiva.

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

**Chronic Symptoms:** Repeated and longterm Contact with dust is unlikely in the event dust is formed it may produce the following symptoms: May cause cancer by inhalation. Causes damage to organs (respiratory organs) through prolonged or repeated exposure (inhalation).

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

**LD50 and LC50 Data:**

<b>Methyl ethyl ketone (78-93-3)</b>	
LD50 Oral Rat	2483 mg/kg
LD50 Dermal Rat	> 10 ml/kg
LC50 Inhalation Rat	34.5 mg/l/4h
<b>Aluminum oxide (Al2O3) (1344-28-1)</b>	
LD50 Oral Rat	> 15900 mg/kg
<b>Iron oxide (Fe2O3) (1309-37-1)</b>	
LD50 Oral Rat	> 10000 mg/kg
<b>Ammonium hydroxide (1336-21-6)</b>	
LD50 Oral Rat	350 mg/kg
<b>Ammonia (7664-41-7)</b>	
LD50 Oral Rat	350 mg/kg
LC50 Inhalation Rat	5.1 mg/l (Exposure time: 1 h)
<b>Cellulose (9004-34-6)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 5800 mg/m <sup>3</sup> (Exposure time: 4 h)
<b>Ethyl acetate (141-78-6)</b>	
LD50 Oral Rat	5620 mg/kg
LD50 Dermal Rabbit	> 18000 mg/kg
LC50 Inhalation Rat	> 7348 mg/l/4h (calculated off of 6hr test results)
<b>Acetone (67-64-1)</b>	

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LD50 Oral Rat	5800 mg/kg (Species: Sprague-Dawley)
LD50 Dermal Rabbit	7400 mg/kg
LC50 Inhalation Rat	44 g/m <sup>3</sup>
<b>Toluene (108-88-3)</b>	
LD50 Oral Rat	2600 mg/kg
LD50 Dermal Rabbit	12000 mg/kg
LC50 Inhalation Rat	25.7 mg/l/4h
<b>Benzene, 1,3-diisocyanatomethyl- (26471-62-5)</b>	
LD50 Oral Rat	3060 mg/kg
LD50 Dermal Rabbit	10000 mg/kg
LC50 Inhalation Rat	0.48 mg/l
<b>Iron oxide (Fe2O3) (1309-37-1)</b>	
IARC Group	3
<b>Toluene (108-88-3)</b>	
IARC Group	3
<b>Benzene, 1,3-diisocyanatomethyl- (26471-62-5)</b>	
IARC Group	2B
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
<b>Silicon carbide (409-21-2)</b>	
IARC Group	2A
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General:** This product contains components that are environmentally hazardous and dust may be harmful to aquatic life with long lasting effects.

<b>Methyl ethyl ketone (78-93-3)</b>	
LC50 Fish 1	3130 (3130 – 3320) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	520 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	5091 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC Chronic Algae	93 mg/l
<b>Aluminum oxide (Al2O3) (1344-28-1)</b>	
LC50 Fish 1	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
ErC50 algae	> 100 mg/l
NOEC (Acute)	> 50 mg/l
<b>Iron oxide (Fe2O3) (1309-37-1)</b>	
LC50 Fish 1	100000 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
<b>Ammonium hydroxide (1336-21-6)</b>	
LC50 Fish 1	8.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 - Crustacea [1]	0.66 mg/l (Exposure time: 48 h - Species: water flea)
NOEC Chronic Crustacea	3.47 mg/l
<b>Ammonia (7664-41-7)</b>	
LC50 Fish 1	0.083 mg/l
EC50 - Crustacea [1]	25.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	0.26 – 4.6 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
<b>Ethyl acetate (141-78-6)</b>	
LC50 Fish 1	220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

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LC50 Fish 2	484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
NOEC Chronic Crustacea	2.4 mg/l
<b>Acetone (67-64-1)</b>	
LC50 Fish 1	4144.846 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	1679.66 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	6210 (6210 – 8120) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [2]	12600 (12600 – 12700) mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Toluene (108-88-3)</b>	
LC50 Fish 1	15.22 (15.22 – 19.05) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	5.46 (5.46 – 9.83) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC Chronic Fish	1.4 mg/l (Oncorhynchus kisutch)
NOEC Chronic Crustacea	0.74 mg/l (Ceriodaphnia dubia)
<b>Benzene, 1,3-diisocyanatomethyl- (26471-62-5)</b>	
LC50 Fish 1	0.358 mg/l
NOEC (Acute)	≥ 1000 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])

### 12.2. Persistence and Degradability

<b>Abrasive Coated Sanding Belts</b>	
Persistence and Degradability	May cause long-term adverse effects in the environment.
<b>Acetone (67-64-1)</b>	
Persistence and Degradability	Readily biodegradable in water.

### 12.3. Bioaccumulative Potential

<b>Abrasive Coated Sanding Belts</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>Ethyl acetate (141-78-6)</b>	
BCF Fish 1	(30 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	0.73 (at 20 °C (at pH 7))
<b>Acetone (67-64-1)</b>	
BCF Fish 1	(0,69 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	-0.24
<b>Toluene (108-88-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.73 (at 20 °C (at pH 7))
<b>Benzene, 1,3-diisocyanatomethyl- (26471-62-5)</b>	
BCF Fish 1	(180 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	3.43 (at 22 °C (at pH 7))

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

**Other Information:** Avoid release to the environment.



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## 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.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## 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>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>Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</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 % (fibrous forms)
<b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Ammonium hydroxide (1336-21-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>CERCLA RQ</b>	1000 lb
<b>Ammonia (7664-41-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>	500 lb
<b>SARA Section 313 - Emission Reporting</b>	1 % (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing)
<b>Cellulose (9004-34-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Ethyl acetate (141-78-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>CERCLA RQ</b>	5000 lb
<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

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<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>Benzene, 1,3-diisocyanatomethyl- (26471-62-5)</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>EPA TSCA Regulatory Flag</b>	SP - SP - indicates a substance that is identified in a proposed Significant New Uses Rule.
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Silicon carbide (409-21-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	

### 15.2. US State Regulations

#### California Proposition 65

 **WARNING:** This product can expose you to Benzene, 1,3-diisocyanatomethyl-, 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
Toluene (108-88-3)		X		
Benzene, 1,3-diisocyanatomethyl- (26471-62-5)	X			

<b>Methyl ethyl ketone (78-93-3)</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>Aluminum oxide (Al2O3) (1344-28-1)</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>Iron oxide (Fe2O3) (1309-37-1)</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
<b>Ammonium hydroxide (1336-21-6)</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 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
<b>Ammonia (7664-41-7)</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 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
<b>Cellulose (9004-34-6)</b>

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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

### **Ethyl acetate (141-78-6)**

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

### **Acetone (67-64-1)**

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

### **Toluene (108-88-3)**

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

### **Benzene, 1,3-diisocyanatomethyl- (26471-62-5)**

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

### **Silicon carbide (409-21-2)**

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

## **15.3. Canadian Regulations**

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

Listed on the Canadian DSL (Domestic Substances List)

### **Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)**

Listed on the Canadian DSL (Domestic Substances List)

### **Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)**

Listed on the Canadian DSL (Domestic Substances List)

### **Ammonium hydroxide (1336-21-6)**

Listed on the Canadian DSL (Domestic Substances List)

### **Ammonia (7664-41-7)**

Listed on the Canadian DSL (Domestic Substances List)

### **Cellulose (9004-34-6)**

Listed on the Canadian DSL (Domestic Substances List)

### **Ethyl acetate (141-78-6)**

Listed on the Canadian DSL (Domestic Substances List)

### **Acetone (67-64-1)**

Listed on the Canadian DSL (Domestic Substances List)

### **Toluene (108-88-3)**

Listed on the Canadian DSL (Domestic Substances List)

### **Benzene, 1,3-diisocyanatomethyl- (26471-62-5)**

Listed on the Canadian DSL (Domestic Substances List)

### **Silicon carbide (409-21-2)**

Listed on the Canadian DSL (Domestic Substances List)

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

**Date of Preparation or Latest Revision** : 10/21/2022

**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:**

H221	Flammable gas
H225	Highly flammable liquid and vapor
H290	May be corrosive to metals
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
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
H330	Fatal if inhaled
H331	Toxic if inhaled
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H350	May cause cancer
H351	Suspected of causing cancer
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
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

*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)