

# Black Beauty® GLASS AND BRIGHTLINE® FILTER MEDIA

## Safety Data Sheet

According To Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules And Regulations And According To The Hazardous Products Regulation (December 15, 2022).  
Revision Date: 02/09/2026 Date of Issue: 11/05/2020 Version: 3.0

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Black Beauty® GLASS AND BRIGHTLINE® FILTER MEDIA

### 1.2 Recommended Use and Restrictions on Use

**Use Of The Substance/Mixture** : Abrasives

**Restrictions On Use** : No additional information available

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

#### Company

Reed Minerals, LLC  
350 Poplar Church Road  
Camp Hill, PA 17011  
USA

Phone: 1-8888-415-3316

E-Mail: [reedcs@harsco.com](mailto:reedcs@harsco.com)

### 1.4. Emergency Telephone Number

**Emergency Number** : Verisk 3E  
855-393-9889 (Access Code: 13793)

## SECTION 2: HAZARDS IDENTIFICATION



### 2.1. Classification of the Substance or Mixture

#### GHS-US/CA Classification

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2A	H319
Carcinogenicity, Category 1A	H350
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity, Repeated exposure, Category 2	H373

### 2.2. Label Elements

#### GHS-US/CA Labeling

**Hazard Pictograms (GHS-US/CA)** :  

**Signal Word (GHS-US/CA)** : Danger

**Hazard Statements (GHS-US/CA)** : H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H350 - May cause cancer.  
H373 - May cause damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

**Precautionary Statements (GHS-US/CA)** : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical advice or attention.  
P312 - Call a POISON CENTER or a doctor if you feel unwell.  
P314 - Get medical advice or attention if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice or attention.  
P337+P313 - If eye irritation persists: Get medical advice or attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of local, regional, national, territorial, provincial, and international regulations. to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

### 2.3 Hazards associated with known or reasonably anticipated uses

If this product is used in unforeseeable chemical processes and not used as intended or reasonable, the hazards listed in Section 2.3 cannot cover all chemistries. Therefore, a Process Hazard Analysis (PHA) or other hazard assessment for additional specific end uses should be performed to ensure that hazards are fully understood, and adequate safety measures are in place. See Section 10 for relevant reactivity and stability information.

### 2.4. Other Hazards

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

### 2.5. 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
Silica, vitreous	Silica, fused / Fused silica / Silica - fused / Silica, amorphous (fused) / Silicon dioxide / Vitreous silica / Silica - amorphous, fused / GR 90 / Silica fused / Silica (fused) / Silica, fused, amorphous / Silica, vitreous (coatings) / Fused quartz / Quartz glass / Silica melted (quartz glass) / Amorphous silica / Silica	(CAS-No.) 60676-86-0	60 – 80	STOT RE 2, H373
Calcium oxide	Lime / Quicklime / CALCIUM OXIDE / Quicklime (CaO) / Calcium oxide (CaO) / Lime (calcium oxide)	(CAS-No.) 1305-78-8	10 – 20	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Sodium oxide (Na <sub>2</sub> O)**	Disodium oxide / Sodium oxide / SODIUM OXIDE / Sodium monoxide	(CAS-No.) 1313-59-3	10 – 20	PHNOC 1 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 1, H370
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 / Alundum / ALUMINA / Dialuminium trioxide / Dialuminium trioxide	(CAS-No.) 1344-28-1	< 5	Not classified.
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	C.I. 77491 / C.I. Pigment Red 101 / Diiron trioxide / Ferric	(CAS-No.) 1309-37-1	0.1 – 1	Combustible dust

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	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 / Iron oxide fume			
Quartz	Quartz (SiO <sub>2</sub> ) / Silica, crystalline, quartz / Crystalline silica, quartz / .alpha.-Quartz / Silica, crystalline, .alpha.-quartz / QUARTZ / Crystalline silica in the form of quartz / Quartz, silica / Quartz (respirable fraction) / Silica, crystalline-.alpha.quartz / Silica, .alpha.-quartz / Silicon dioxide / Silica, quartz / Silica, crystalline / Quartz (crystalline silica) / QUARTZ POWDER / Silica, crystalline (quartz)	(CAS-No.) 14808-60-7	< 1	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372
Magnesium oxide (MgO)	Calcined magnesite / Magnesium oxide / MAGNESIUM OXIDE / Magnesia / C.I. 77711	(CAS-No.) 1309-48-4	0.1 – 1	Not classified.
Potassium oxide (K <sub>2</sub> O)**	Potassium oxide / Dipotassium oxide / Potassium monoxide	(CAS-No.) 12136-45-7	0.1 – 1	Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 1, H370
Titanium dioxide	C.I. 77891 / C.I. Pigment White 6 / Titanium oxide (TiO <sub>2</sub> ) / CI 77891 / Titanium(IV) oxide / C.I. Pigment White 7 / Pigment White 6 / Titanium oxide	(CAS-No.) 13463-67-7	< 0.1	Carc. 2, H351
Cadmium	Cadmium, elemental / Cadmium metal / Cadmium (non-pyrophoric) / C.I. 77180 / Cadmium (pyrophoric)	(CAS-No.) 7440-43-9	< 0.001	Pyr. Sol. 1, H250 Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Beryllium	Beryllium, elemental / Beryllium metal / Beryllium, metal / Beryllium powder	(CAS-No.) 7440-41-7	< 0.0005	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 Combustible dust

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%).

\*\*Sodium Oxide, Calcium Oxide, and Potassium Oxide are chemically bound within a stable silica matrix and are unable to generate hydroxides upon contact with moisture, making the material unlikely to cause chemical burns under normal handling conditions.

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

**Eye Contact:** Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

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

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

**General:** May cause cancer. May cause damage to organs through prolonged or repeated exposure. Causes skin irritation. Causes serious eye irritation. May cause damage to organs (lungs) through prolonged or repeated exposure (inhalation).

**Inhalation:** Irritation of the respiratory tract and the other mucous membranes. Cough, dyspnea (breathing difficulty), wheezing; decreased pulmonary function, progressive respiratory symptoms (silicosis). The lungs become very inflamed and may fill with fluid, causing severe shortness of breath and low blood oxygen levels. Inflammation, scarring, and symptoms progress faster in accelerated silicosis than in simple silicosis. Progressive massive fibrosis may occur in simple or accelerated silicosis, but is more common in the accelerated form. Progressive massive fibrosis results from severe scarring and leads to the destruction of normal lung structures.

**Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

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

**Chronic Symptoms:** May cause cancer. May cause damage to organs (lungs) through prolonged or repeated exposure (inhalation). This product contains crystalline silica. Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis; a seriously disabling and fatal lung disease, and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects. Pulmonary function may be reduced and pre-existing lung diseases such as emphysema or asthma may be aggravated by inhalation exposure to dusts. Smoking aggravates the effects of exposure. Inhalation may lead to a progressive massive fibrosis which may be accompanied by right heart enlargement, heart failure, pulmonary failure of the lung and susceptibility to pulmonary tuberculosis.

The most common health effects associated with overexposure to beryllium in the workplace include: beryllium sensitization, chronic beryllium disease (CBD), acute beryllium disease (ABD), and lung cancer.

**Beryllium Sensitization** - Beryllium sensitization is the activation of the body's immune response to beryllium. Beryllium sensitization can result from inhalation or skin exposure to beryllium dust, fume, mist, or solutions. While no clinical symptoms may be associated with sensitization, a sensitized worker is at risk of developing CBD when inhalation exposure to beryllium has occurred.

**Chronic Beryllium Disease** - CBD is a chronic granulomatous lung disease caused by inhaling airborne beryllium after becoming sensitized to beryllium. Some common symptoms of CBD are shortness of breath, unexplained coughing, fatigue, weight loss, fever, and night sweats. CBD shares many signs and symptoms with pulmonary sarcoidosis, a granulomatous lung disease of unknown cause or origin. Without appropriate diagnosis, CBD may be difficult to distinguish from sarcoidosis.

**Acute Beryllium Disease (ABD)** - Acute beryllium disease (ABD) is a rapid onset form of chemical pneumonia that results from breathing high airborne concentrations of beryllium.

### 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.

Treatment will be based on severity and prognosis of disease.

## 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:** Not flammable. Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

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**Reactivity:** Hazardous reactions will not occur under normal conditions. Silicates dissolve in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

### 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:**

### 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 breathe dust. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood.

#### 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.

**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.

### 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.

**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. Avoid actions that cause dust to become airborne during clean-up such as dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE described in Section 8.

### 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:** Cutting, crushing or grinding crystalline silica-bearing materials may release respirable crystalline silica, a known carcinogen. Use all appropriate measures of dust control or suppression and personal protective equipment. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

**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 contact with eyes, skin and clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Avoid contact with skin, eyes and clothing. Do not get in eyes, on skin, or on clothing. Avoid creating or spreading dust.

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

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

### 7.3. Specific End Use(s)

Abrasives

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

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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.

<b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b>		
<b>USA ACGIH</b>	ACGIH® TLV® 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	10 mg/m <sup>3</sup> (fume) 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> (respirable fraction)
<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 TWAEV	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 TWAEV)	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>Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</b>		
<b>USA ACGIH</b>	ACGIH® TLV® TWA	10 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	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>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>

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Québec	VEMP (OEL TWAEV)	10 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL	20 mg/m <sup>3</sup>
Saskatchewan	OEL TWA	10 mg/m <sup>3</sup>
Yukon	OEL STEL	20 mg/m <sup>3</sup> (Al <sub>2</sub> O <sub>3</sub> )
Yukon	OEL TWA	30 mppcf (Al <sub>2</sub> O <sub>3</sub> ) 10 mg/m <sup>3</sup> (Al <sub>2</sub> O <sub>3</sub> )
<b>Quartz (14808-60-7)</b>		
USA ACGIH	ACGIH® TLV® TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
USA ACGIH	ACGIH chemical category	Suspected Human Carcinogen
USA OSHA	OSHA PEL TWA	50 µg/m <sup>3</sup> (Respirable crystalline silica)
USA OSHA	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)
USA NIOSH	NIOSH REL TWA	0.05 mg/m <sup>3</sup> (respirable dust)
USA IDLH	IDLH	50 mg/m <sup>3</sup> (respirable dust)
Alberta	OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate)
British Columbia	OEL TWA	0.025 mg/m <sup>3</sup> (respirable)
Manitoba	OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
New Brunswick	OEL TWA	0.025 mg/m <sup>3</sup> (respirable fraction)
Newfoundland & Labrador	OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
Nova Scotia	OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
Nunavut	OEL TWA	0.05 mg/m <sup>3</sup> (Trydimite removed-respirable fraction (Silica - crystalline))
Northwest Territories	OEL TWA	0.05 mg/m <sup>3</sup> (Trydimite removed-respirable fraction (Silica - crystalline))
Ontario	OEL TWAEV	0.1 mg/m <sup>3</sup> (designated substances regulation-respirable fraction (Silica, crystalline))
Prince Edward Island	OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
Québec	VEMP (OEL TWAEV)	0.1 mg/m <sup>3</sup> (respirable dust)
Saskatchewan	OEL TWA	0.05 mg/m <sup>3</sup> (Trydimite removed-respirable fraction (Silica - crystalline (Trydimite removed)))
Yukon	OEL TWA	300 particle/mL (Silica - Quartz, crystalline)
<b>Magnesium oxide (MgO) (1309-48-4)</b>		
USA ACGIH	ACGIH® TLV® TWA	10 mg/m <sup>3</sup> (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL TWA	15 mg/m <sup>3</sup> (fume, total particulate)
USA IDLH	IDLH	750 mg/m <sup>3</sup> (fume)
Alberta	OEL TWA	10 mg/m <sup>3</sup> (fume)
British Columbia	OEL STEL	10 mg/m <sup>3</sup> (respirable dust and fume)
British Columbia	OEL TWA	10 mg/m <sup>3</sup> (fume, inhalable) 3 mg/m <sup>3</sup> (respirable dust and fume)
Manitoba	OEL TWA	10 mg/m <sup>3</sup> (inhalable particulate matter)
New Brunswick	OEL TWA	10 mg/m <sup>3</sup> (inhalable fraction)
Newfoundland & Labrador	OEL TWA	10 mg/m <sup>3</sup> (inhalable particulate matter)
Nova Scotia	OEL TWA	10 mg/m <sup>3</sup> (inhalable particulate matter)
Nunavut	OEL STEL	20 mg/m <sup>3</sup> (inhalable fraction)
Nunavut	OEL TWA	10 mg/m <sup>3</sup> (inhalable fraction)
Northwest Territories	OEL STEL	20 mg/m <sup>3</sup> (inhalable fraction)
Northwest Territories	OEL TWA	10 mg/m <sup>3</sup> (inhalable fraction)

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Ontario	OEL TWAEV	10 mg/m <sup>3</sup> (inhalable particulate matter)
Prince Edward Island	OEL TWA	10 mg/m <sup>3</sup> (inhalable particulate matter)
Québec	VEMP (OEL TWAEV)	10 mg/m <sup>3</sup> (inhalable dust)
Saskatchewan	OEL STEL	20 mg/m <sup>3</sup> (inhalable fraction)
Saskatchewan	OEL TWA	10 mg/m <sup>3</sup> (inhalable fraction)
Yukon	OEL STEL	10 mg/m <sup>3</sup> (fume)
Yukon	OEL TWA	10 mg/m <sup>3</sup> (fume)
<b>Silica, vitreous (60676-86-0)</b>		
USA OSHA	OSHA PEL TWA	20 mppcf (respirable dust)
USA OSHA	OSHA PEL TWA	(80)/(%SiO <sub>2</sub> ) mg/m <sup>3</sup> 20 mppcf (See 29 CFR 1910.1000 TABLE Z-3)
Nunavut	OEL TWA	0.1 mg/m <sup>3</sup> (respirable fraction (Silica amorphous))
Northwest Territories	OEL TWA	0.1 mg/m <sup>3</sup> (respirable fraction (Silica amorphous))
Ontario	OEL TWAEV	0.1 mg/m <sup>3</sup> (respirable fraction)
Saskatchewan	OEL TWA	0.1 mg/m <sup>3</sup> (respirable fraction (Silica amorphous))
Yukon	OEL TWA	300 particle/mL (Silica, fused or flour)
<b>Calcium oxide (1305-78-8)</b>		
USA ACGIH	ACGIH® TLV® TWA	2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL TWA	5 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA	2 mg/m <sup>3</sup>
USA IDLH	IDLH	25 mg/m <sup>3</sup>
Alberta	OEL TWA	2 mg/m <sup>3</sup>
British Columbia	OEL TWA	2 mg/m <sup>3</sup>
Manitoba	OEL TWA	2 mg/m <sup>3</sup>
New Brunswick	OEL TWA	2 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL TWA	2 mg/m <sup>3</sup>
Nova Scotia	OEL TWA	2 mg/m <sup>3</sup>
Nunavut	OEL STEL	4 mg/m <sup>3</sup>
Nunavut	OEL TWA	2 mg/m <sup>3</sup>
Northwest Territories	OEL STEL	4 mg/m <sup>3</sup>
Northwest Territories	OEL TWA	2 mg/m <sup>3</sup>
Ontario	OEL TWAEV	2 mg/m <sup>3</sup>
Prince Edward Island	OEL TWA	2 mg/m <sup>3</sup>
Québec	VEMP (OEL TWAEV)	2 mg/m <sup>3</sup>
Saskatchewan	OEL STEL	4 mg/m <sup>3</sup>
Saskatchewan	OEL TWA	2 mg/m <sup>3</sup>
Yukon	OEL STEL	4 mg/m <sup>3</sup>
Yukon	OEL TWA	2 mg/m <sup>3</sup>
<b>Cadmium (7440-43-9)</b>		
USA ACGIH	ACGIH® TLV® TWA	0.01 mg/m <sup>3</sup> 0.002 mg/m <sup>3</sup> (respirable particulate matter)
USA ACGIH	ACGIH chemical category	Suspected Human Carcinogen
USA ACGIH	BEI	5 µg/g Kreatinin Parameter: Cadmium - Medium: urine - Sampling time: not critical (background) 5 µg/l Parameter: Cadmium - Medium: blood - Sampling time: not critical (background)
USA OSHA	OSHA PEL TWA	5 µg/m <sup>3</sup>
USA OSHA	OSHA PEL C	0.3 mg/m <sup>3</sup> (applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect- fume) 0.6 mg/m <sup>3</sup> (applies to any operations or sectors for which

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		the Cadmium standard is stayed or otherwise not in effect-dust)
<b>USA OSHA</b>	OSHA Action Level/Excursion Limit	2.5 µg/m <sup>3</sup> (Action Level, see 29 CFR 1910.1027)
<b>USA IDLH</b>	IDLH	9 mg/m <sup>3</sup> (dust)
<b>Alberta</b>	OEL TWA	0.01 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA	0.01 mg/m <sup>3</sup> 0.002 mg/m <sup>3</sup> (respirable)
<b>Manitoba</b>	OEL TWA	0.01 mg/m <sup>3</sup> 0.002 mg/m <sup>3</sup> (respirable particulate matter)
<b>New Brunswick</b>	OEL TWA	0.01 mg/m <sup>3</sup> 0.002 mg/m <sup>3</sup> (respirable fraction)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	0.01 mg/m <sup>3</sup> 0.002 mg/m <sup>3</sup> (respirable particulate matter)
<b>Nova Scotia</b>	OEL TWA	0.01 mg/m <sup>3</sup> 0.002 mg/m <sup>3</sup> (respirable particulate matter)
<b>Nunavut</b>	OEL STEL	0.03 mg/m <sup>3</sup> (total fraction) 0.006 mg/m <sup>3</sup> (respirable fraction)
<b>Nunavut</b>	OEL TWA	0.01 mg/m <sup>3</sup> (total fraction) 0.002 mg/m <sup>3</sup> (respirable fraction)
<b>Northwest Territories</b>	OEL STEL	0.03 mg/m <sup>3</sup> (total fraction) 0.006 mg/m <sup>3</sup> (respirable fraction)
<b>Northwest Territories</b>	OEL TWA	0.01 mg/m <sup>3</sup> (total fraction) 0.002 mg/m <sup>3</sup> (respirable fraction)
<b>Ontario</b>	OEL TWAEV	0.01 mg/m <sup>3</sup> 0.002 mg/m <sup>3</sup> (respirable particulate matter)
<b>Prince Edward Island</b>	OEL TWA	0.01 mg/m <sup>3</sup> 0.002 mg/m <sup>3</sup> (respirable particulate matter)
<b>Québec</b>	VEMP (OEL TWAEV)	0.01 mg/m <sup>3</sup> 0.005 mg/m <sup>3</sup> (respirable-respirable aerosol fraction)
<b>Saskatchewan</b>	OEL STEL	0.03 mg/m <sup>3</sup> (total) 0.006 mg/m <sup>3</sup> (respirable fraction)
<b>Saskatchewan</b>	OEL TWA	0.01 mg/m <sup>3</sup> (total) 0.002 mg/m <sup>3</sup> (respirable fraction)
<b>Yukon</b>	OEL STEL	0.15 mg/m <sup>3</sup> (dust)
<b>Yukon</b>	OEL TWA	0.05 mg/m <sup>3</sup> (dust)
<b>Beryllium (7440-41-7)</b>		
<b>USA ACGIH</b>	ACGIH® TLV® TWA	0.00005 mg/m <sup>3</sup> (inhalable particulate matter)
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Human Carcinogen, respiratory sensitizer
<b>USA OSHA</b>	OSHA PEL TWA	0.2 µg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL STEL	2 µg/m <sup>3</sup> (See 29 CFR 1910.1024)
<b>USA OSHA</b>	OSHA PEL C	2 µg/m <sup>3</sup>
<b>USA OSHA</b>	Acceptable Maximum Peak Above The Acceptable Ceiling Concentration For An 8-Hr Shift	25 µg/m <sup>3</sup> Peak (30 minutes)
<b>USA OSHA</b>	OSHA Action Level/Excursion Limit	0.1 µg/m <sup>3</sup> (Action Level, see 29 CFR 1910.1024)
<b>USA NIOSH</b>	NIOSH REL C	0.0005 mg/m <sup>3</sup>
<b>USA IDLH</b>	IDLH	4 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL	0.01 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	0.002 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA	0.00005 mg/m <sup>3</sup> (inhalable)
<b>Manitoba</b>	OEL TWA	0.00005 mg/m <sup>3</sup> (inhalable particulate matter)
<b>New Brunswick</b>	OEL TWA	0.00005 mg/m <sup>3</sup> (inhalable fraction)

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<b>Newfoundland &amp; Labrador</b>	OEL TWA	0.00005 mg/m <sup>3</sup> (inhalable particulate matter)
<b>Nova Scotia</b>	OEL TWA	0.00005 mg/m <sup>3</sup> (inhalable particulate matter)
<b>Nunavut</b>	OEL STEL	0.01 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA	0.002 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL	0.01 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA	0.002 mg/m <sup>3</sup>
<b>Ontario</b>	OEL TWAEV	0.00005 mg/m <sup>3</sup> (inhalable particulate matter)
<b>Prince Edward Island</b>	OEL TWA	0.00005 mg/m <sup>3</sup> (inhalable particulate matter)
<b>Québec</b>	VEMP (OEL TWAEV)	0.00015 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL STEL	0.01 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL TWA	0.002 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	0.002 mg/m <sup>3</sup>
<b>Titanium dioxide (13463-67-7)</b>		
<b>USA ACGIH</b>	ACGIH® TLV® TWA	0.2 mg/m <sup>3</sup> (nanoscale respirable particulate matter) 2.5 mg/m <sup>3</sup> (finescale respirable particulate matter)
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>USA OSHA</b>	OSHA PEL TWA	15 mg/m <sup>3</sup> (total dust)
<b>USA NIOSH</b>	NIOSH REL TWA	2.4 mg/m <sup>3</sup> (CIB 63-fine) 0.3 mg/m <sup>3</sup> (CIB 63-ultrafine, including engineered nanoscale)
<b>USA IDLH</b>	IDLH	5000 mg/m <sup>3</sup>
<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	0.2 mg/m <sup>3</sup> (nanoscale-nanoscale respirable particulate matter) 2.5 mg/m <sup>3</sup> (finescale-finescale respirable particulate matter)
<b>New Brunswick</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Newfoundland &amp; Labrador</b>	OEL TWA	0.2 mg/m <sup>3</sup> (nanoscale-nanoscale respirable particulate matter) 2.5 mg/m <sup>3</sup> (finescale-finescale respirable particulate matter)
<b>Nova Scotia</b>	OEL TWA	0.2 mg/m <sup>3</sup> (nanoscale-nanoscale respirable particulate matter) 2.5 mg/m <sup>3</sup> (finescale-finescale respirable particulate matter)
<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 TWAEV	10 mg/m <sup>3</sup>
<b>Prince Edward Island</b>	OEL TWA	0.2 mg/m <sup>3</sup> (nanoscale-nanoscale respirable particulate matter) 2.5 mg/m <sup>3</sup> (finescale-finescale respirable particulate matter)
<b>Québec</b>	VEMP (OEL TWAEV)	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>

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Yukon	OEL TWA	30 mppcf 10 mg/m <sup>3</sup>
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## 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. Maintain sufficient mechanical or natural ventilation to assure silica concentrations remain below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices. If product needs to be altered, use wet processing techniques if possible to minimize generation of dust.

**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
Color	: According to product specification, granular
Odor	: Odorless
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 (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
Density	: 2.5 g/cm <sup>3</sup> (20.86 lbs/gal)
Specific Gravity	: No data available
Solubility	: Water: insoluble
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity, Kinematic	: No data available
Particle characteristics	: No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

Hazardous reactions will not occur under normal conditions. Silicates dissolve in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

### 10.2. Chemical Stability:

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

### 10.3. Possibility of Hazardous Reactions, Including those Associated with Foreseeable Emergencies:

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.

### 10.5. Incompatible Materials:

Halogenated compounds. Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Thermal decomposition generates : Corrosive vapors. Crystalline silica exists in several forms, the most common of which is quartz. If crystalline silica (quartz) is heated to more than 870°C (1598 °F), it can change to a form of crystalline silica known as trypidite, and if crystalline silica (quartz) is heated to more than 1470°C (2678 °F), it can change to a form of crystalline silica known as cristobalite. The OSHA PEL for crystalline silica as trypidite and cristobalite is one-half of the OSHA PEL for crystalline silica (quartz).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects - Product

**Likely routes of exposure:** Dermal, Eye Contact, Inhalation, Oral.

**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:** Causes skin irritation.

**Eye Damage/Irritation:** Causes serious eye irritation.

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

**Germ Cell Mutagenicity:** Not classified.

**Carcinogenicity:** May cause cancer.

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

**Aspiration Hazard:** Not classified.

**Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes. Cough, dyspnea (breathing difficulty), wheezing; decreased pulmonary function, progressive respiratory symptoms (silicosis). The lungs become very inflamed and may fill with fluid, causing severe shortness of breath and low blood oxygen levels. Inflammation, scarring, and symptoms progress faster in accelerated silicosis than in simple silicosis. Progressive massive fibrosis may occur in simple or accelerated silicosis, but is more common in the accelerated form. Progressive massive fibrosis results from severe scarring and leads to the destruction of normal lung structures.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

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

**Chronic Symptoms:** May cause cancer. May cause damage to organs (lungs) through prolonged or repeated exposure (inhalation).

This product contains crystalline silica. Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis; a seriously disabling and fatal lung disease, and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects. Pulmonary function may be reduced and pre-existing lung diseases such as emphysema or asthma may be aggravated by inhalation exposure to dusts. Smoking aggravates the effects of exposure. Inhalation may lead to a progressive massive fibrosis which may be accompanied by right heart enlargement, heart failure, pulmonary failure of the lung and susceptibility to pulmonary tuberculosis.

The most common health effects associated with overexposure to beryllium in the workplace include: beryllium sensitization, chronic beryllium disease (CBD), acute beryllium disease (ABD), and lung cancer.

**Beryllium Sensitization** - Beryllium sensitization is the activation of the body's immune response to beryllium. Beryllium sensitization can result from inhalation or skin exposure to beryllium dust, fume, mist, or solutions. While no clinical symptoms may be associated with sensitization, a sensitized worker is at risk of developing CBD when inhalation exposure to beryllium has occurred.

**Chronic Beryllium Disease** - CBD is a chronic granulomatous lung disease caused by inhaling airborne beryllium after becoming

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sensitized to beryllium. Some common symptoms of CBD are shortness of breath, unexplained coughing, fatigue, weight loss, fever, and night sweats. CBD shares many signs and symptoms with pulmonary sarcoidosis, a granulomatous lung disease of unknown cause or origin. Without appropriate diagnosis, CBD may be difficult to distinguish from sarcoidosis.

Acute Beryllium Disease (ABD) - Acute beryllium disease (ABD) is a rapid onset form of chemical pneumonia that results from breathing high airborne concentrations of beryllium

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

#### LD50 and LC50 Data:

<b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b>	
LD50 Oral Rat	> 10000 mg/kg (Source: ECHA)
LC50 Inhalation Rat	5.05 mg/l/4h
<b>Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</b>	
LD50 Oral Rat	> 15900 mg/kg
<b>Quartz (14808-60-7)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
<b>Magnesium oxide (MgO) (1309-48-4)</b>	
LD50 Oral Rat	3870 mg/kg (Source: NLM_HSDB)
<b>Calcium oxide (1305-78-8)</b>	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2500 mg/kg (Source: ECHA)
LD50 Dermal Rabbit	> 2500 mg/kg
LC50 Inhalation Rat	> 6.04 mg/l/4h
<b>Cadmium (7440-43-9)</b>	
LD50 Oral Rat	1140 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation Rat	25 mg/m <sup>3</sup> (Exposure time: 30 min Source: NLM_CIP)
ATE US/CA (vapors)	0.03 mg/l/4h
ATE US/CA (dust, mist)	0.03 mg/l/4h
<b>Beryllium (7440-41-7)</b>	
ATE US/CA (oral)	100.00 mg/kg body weight
ATE US/CA (gas)	100.00 ppmV/4h
ATE US/CA (vapors)	0.50 mg/l/4h
ATE US/CA (dust, mist)	0.05 mg/l/4h
<b>Titanium dioxide (13463-67-7)</b>	
LD50 Oral Rat	> 2000 mg/kg (Source: ECHA)
LC50 Inhalation Rat	> 5.09 mg/l/4h
<b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b>	
IARC Group	3
<b>Quartz (14808-60-7)</b>	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
<b>Silica, vitreous (60676-86-0)</b>	
IARC Group	3
<b>Cadmium (7440-43-9)</b>	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
OSHA Specifically Regulated Carcinogen List	In OSHA Specifically Regulated Carcinogen list.
<b>Beryllium (7440-41-7)</b>	
IARC Group	1

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National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
OSHA Specifically Regulated Carcinogen List	In OSHA Specifically Regulated Carcinogen list.
Titanium dioxide (13463-67-7)	
IARC Group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - General: Not classified.

Iron oxide (Fe <sub>2</sub> O <sub>3</sub> ) (1309-37-1)	
LC50 Fish 1	100000 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)	
LC50 Fish 1	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
ErC50 algae	> 100 mg/l
NOEC (Acute)	> 50 mg/l
Calcium oxide (1305-78-8)	
LC50 Fish 1	50.6 mg/l
Cadmium (7440-43-9)	
LC50 Fish 1	0.003 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
EC50 - Crustacea [1]	0.0244 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	0.006 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
ErC50 algae	0.07 mg/l
NOEC Chronic Fish	0.008 mg/l

### 12.2. Persistence and Degradability

Black Beauty® GLASS AND BRIGHTLINE® FILTER MEDIA	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

Black Beauty® GLASS AND BRIGHTLINE® FILTER MEDIA	
Bioaccumulative Potential	Not established.
Calcium oxide (1305-78-8)	
BCF Fish 1	(no bioaccumulation)

### 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.

Ecology - Waste Materials: Avoid release to the environment.

## 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

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Not regulated for transport

## 14.4. In Accordance with TDG

Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

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SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Carcinogenicity Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation
<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>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	
SARA Section 313 - Emission Reporting	1 % (fibrous forms)
<b>Quartz (14808-60-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Magnesium oxide (MgO) (1309-48-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Silica, vitreous (60676-86-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Calcium oxide (1305-78-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Sodium oxide (Na<sub>2</sub>O) (1313-59-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Cadmium (7440-43-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	10 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
SARA Section 313 - Emission Reporting	0.1 %
<b>Beryllium (7440-41-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	10 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
SARA Section 313 - Emission Reporting	0.1 %
<b>Potassium oxide (K<sub>2</sub>O) (12136-45-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Titanium dioxide (13463-67-7)</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 chemicals including Cadmium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Quartz (14808-60-7)	X			
Cadmium (7440-43-9)	X	X		X
Beryllium (7440-41-7)	X			
Titanium dioxide (13463-67-7)	X			

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

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

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

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

### Quartz (14808-60-7)

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

### Magnesium oxide (MgO) (1309-48-4)

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

### Silica, vitreous (60676-86-0)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Massachusetts - Right To Know List

### Calcium oxide (1305-78-8)

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

### Cadmium (7440-43-9)

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

### Beryllium (7440-41-7)

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) - Special Hazardous Substances

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Potassium oxide (K<sub>2</sub>O) (12136-45-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

### Titanium dioxide (13463-67-7)

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

## 15.3. Canadian Regulations

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

Listed on the Canadian DSL (Domestic Substances List)

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<b>Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Quartz (14808-60-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Magnesium oxide (MgO) (1309-48-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Silica, vitreous (60676-86-0)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Calcium oxide (1305-78-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Sodium oxide (Na<sub>2</sub>O) (1313-59-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Cadmium (7440-43-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Beryllium (7440-41-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Potassium oxide (K<sub>2</sub>O) (12136-45-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Titanium dioxide (13463-67-7)</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** : 06/17/2025

**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/2022-272.

GHS Full Text Phrases:	
H250	Catches fire spontaneously if exposed to air
H301	Toxic if swallowed
H302	Harmful if swallowed
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
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs.
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
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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### Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)	FOOD_JOURN: Food Research Journal (1956)
AU_WES: Australia WES	IARC: The International Agency for Research on Cancer
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)	IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
EC_RAR: European Commission Renewal Assessment Report	IUCLID: International Uniform Chemical Information Database
EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits	JAPAN_GHS: Japan GHS Basis for Classification Data
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports	JP_J-CHECK: Japan J-Check
ECHA_API: European Chemicals Agency API	KR_NIER: South Korea National Institute of Environmental Research Evaluations
ECHA_RAC: ECHA Committee for Risk Assessment	NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
EFSA: European Food Safety Authority	NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
EPA: U.S. Environmental Protection Agency	NLM_CIP: National Library of Medicine ChemID plus database
EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)	NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)	NLM_PUBMED: National Library of Medicine PubMed database
EPA_HPVC: High Production Volume Chemicals (U.S. Environmental Protection Agency)	NTP: National Toxicology Program
EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)	NZ_CCID: New Zealand Chemical Classification and Information Database
EU_CLH: European Union Harmonised Classification and Labelling Proposal	OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
EU_RAR: European Union Risk Assessment Report	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 2024 (Can, US)