

**Coated Abrasives**

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**1. Product and Company Identification**

**Product Identifier**

Trade Name: COATED ABRASIVES  
This safety data sheet pertains to the following products:  
Abrasive Caps  
Belts  
Bore Polisher  
Cartridge Rolls - Straight or Tapered  
Cones - Chamfering or Center Lap  
Cross Pad and Square Pads  
Discs - Quick Change, PSA, Flap, Resin Fiber  
Flap Wheels - Mounted, Unmounted, Mini, Angle Grinder  
Sheets  
Shop Rolls  
Spiral Bands

Relevant identified uses of the substance or mixture and uses advised against:

General Use: Grinding and sanding of different kinds of materials.  
For industrial purposes only.

**Details of the supplier of the Safety Data Sheet**

Company Name: Superior Abrasives, LLC  
1620 Fieldstone Way  
Vandalia, Ohio 45377  
USA  
www.superiorabrasives.com  
email: SDS@superiorabrasives.com  
Telephone: 1-800-235-9123  
Local Tel: 937-278-9123  
Fax: 937-278-7581

**2. Hazards Identification**

**Emergency overview**

Appearance: Form: solid  
Color: varying colors  
Odor: No data available  
Classification: Eye Irritation 2A; Carcinogenicity 1A; Toxic to Reproduction (Lactation):  
Specific Target Organ Toxicity (repeated exposure) 1; Aquatic Toxicity - chronic 3

Hazard symbols:



Signal word: **Danger**  
Hazard statements: Causes serious eye irritation.  
May cause cancer.  
May cause harm to breast-fed children.  
Causes damage to organs through prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects.

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Precautionary statements: Obtain special instructions before use.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Avoid contact during pregnancy/while nursing.  
Wash hands and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
If eye irritation persists: Get medical advise/attention.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point.

additional information: The hazard identification is based on a formalistic procedure as the hazard statements of the ingredients are summarized under section 3. This does not correspond to the hazardousness of the product itself. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

**Regulatory status**

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

**Hazards not otherwise classified**

Processing, e.g. by cutting, sawing or grinding, can produce particles and dust.  
Inhalation of dust may cause irritation of the respiratory system.  
Dust may irritate eyes.  
See section 11: Toxicological information

**3. Composition / Information on Ingredients**

Chemical Characterisation: Components in synthetic resin, completely embedded.

Relevant ingredients:

<u>CAS No.</u>	<u>Designation</u>	<u>Content</u>	<u>Classification</u>
CAS 1344-28-1	Aluminium oxide	< 70%	Not applicable
CAS -	Vulcanized fiber	< 70%	Not applicable
CAS 409-21-2	Silicon carbide	< 60%	Not applicable
CAS -	Cotton cloth	< 60%	Not applicable
CAS -	Polyester cloth	< 55%	Not applicable
CAS -	Paper	< 50%	Not applicable
CAS 65997-17-3	Fibre glass weaves	< 45%	Not applicable
CAS -	Polyamide compound	< 45%	Not applicable
CAS -	Synthetic resin, polymerized	< 40%	Not applicable
CAS -	Cotton-Polyester cloth	< 40%	Not applicable
CAS 1314-23-4	Zirconium dioxide	< 30%	Not applicable
CAS -	Adhesive, cured	< 30%	Not applicable
CAS 471-34-1	Calcium carbonate	< 25%	Not applicable
CAS 60304-36-1	Aluminum potassium fluoride	< 25%	Acute Toxicity 4 (inhalative). Eye Irritation 2A. Toxic to Reproduction (Lactation). Specific Target Organ Toxicity (Repeated Exposure) 1. Aquatic Toxicity - Chronic 3.
CAS 14075-53-7	Potassium tetrafluoroborate	< 20%	Not applicable

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CAS 13775-53-6	Trisodium hexafluoroaluminate (cryolite)	< 20%	Acute Toxicity 4 (inhalative). Toxic to Reproduction (Lactation). Specific Target Organ Toxicity (Repeated Exposure) 1. Aquatic Toxicity - Chronic 2.
CAS -	Velcro fabric	< 20%	Not applicable
CAS 25038-36-2	EPDM	< 15%	Not applicable
CAS 1332-58-7	Kaolin	< 15%	Not applicable
CAS -	Rubber, vulcanized	< 10%	Not applicable
CAS 13463-67-7	Titanium dioxide	< 5%	Carcinogenicity 2
CAS 1309-37-1	Diiron trioxide	< 5%	Not applicable
CAS -	Adhesive tape	< 5%	Not applicable
CAS 1345-25-1	Iron (II) oxide	< 1%	Not applicable
CAS 7631-86-9	Silicon dioxide	< 1%	Not applicable
CAS 1309-48-4	Magnesium oxide	< 0.5%	Not applicable
CAS 1305-78-8	Calcium oxide	< 0.5%	Skin Irritation 2. Eye Damage 1. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 14808-60-7	Quartz (SiO2)	< 0.5%	Carcinogenicity 1A
CAS 1333-86-4	Carbon black	< 0.5%	Not applicable
CAS 12055-23-1	Hafnium dioxide	< 0.4%	Not applicable
CAS 50-00-0	Formaldehyde	< 0.1%	Acute Toxicity 3 (oral) Acute Toxicity 3 (dermal) Acute Toxicity 3 (inhalative) Skin Corrosion 1B. Sensitization-skin 1. Germ cell mutagenicity 2 Carcinogenicity 1B

Additional information: The ingredients are embedded in the product.  
The components listed above do not represent/include the chemical composition of the Hub.

**4. First Aid Measures**

In case of inhalation: Provide fresh air. If you feel unwell , seek medical advice.

Following skin contact: Remove residue with soap and water. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After swallowing: Rinse mouth with water. Give water to drink in small sips. If you feel unwell, seek medical advice.

**Most important symptoms and effects, both acute and delayed**  
Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure.

**Information to physician** Treat Symptomatically.

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**5. Fire Fighting Measures**

Flash point/Flash point range: No data available  
Auto-ignition Temperature: No data available  
Suitable extinguishing media: Product is non-combustible. Extinguishing material should therefore be selected according to surroundings.

**Specific hazards arising from the chemical:**

Can be released in case of fire: Hydrogen fluoride, boron compounds, carbon monoxide, and carbon dioxide (CO<sub>2</sub>).

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow fire water to penetrate into surface or ground water.

**6. Accidental Release Measures**

Personal precautions:

Avoid exposure. Avoid generation of dust. Do not inhale substance.  
In case of heating: Development of gas/vapor possible.  
Provide adequate ventilation. Wear appropriate protective equipment  
Avoid contact with the substance. Keep unprotected people away.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.  
In case of release, notify competent authorities.

Methods for clean up:

Take up mechanically, placing in appropriate containers for disposal

**7. Handling and Storage**

**Handling**

Advice on safe handling:

Provide adequate ventilation, and local exhaust as needed. Avoid generation of dust. In case of heating: Development of gas/vapor possible. Do not inhale substance. Wear appropriate protective equipment.  
Avoid contact with the substance. Obtain special instructions before use. Work place should be equipped with a shower and an eye rinsing apparatus.

**Storage**

Requirements for storerooms and containers:

Keep container tightly closed and dry.  
Keep in cool, well-ventilated place.

Hints on joint storage:

Do not store together with oxidizing agents or acids.  
Do not store together with food.

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**8. Exposure Control / Personal Protection**

**Exposure guidelines**

Occupational exposure limit values:

<u>CAS NO.</u>	<u>Designation</u>	<u>Type</u>	<u>Limit Value</u>
1334-28-1	Aluminium oxide	Canada, Alberta: OEL 8 hour	10 mg/m <sup>3</sup>
		Canada, Quebec: VEMP	10 mg/m <sup>3</sup> (inhalable fraction)
		USA: OSHA: TWA	15 mg/m <sup>3</sup> (inhalable fraction)
		USA: OSHA: TWA	5mg/m <sup>3</sup> (respirable fraction)
409-21-2	Silicon carbide	Canada, Alberta: OEL 8 hour	0.1 fibers/cm <sup>3</sup> (fibers, inhalable fraction)
		Canada, Alberta: OEL 8 hour	10mg/m <sup>3</sup> (contains no fibers, inhalable fraction)
		Canada, Alberta: OEL 8 hour	3 mg/m <sup>3</sup> (contains no fibers, respirable fraction)
		Canada BC: OEL TWA	0.1 fibers/cm <sup>3</sup> (fibers, inhalable fraction)
		Canada BC: OEL TWA	10 mg/m <sup>3</sup> (Contains no fibers, inhalable fraction)
		Canada BC; OEL TWA	3mg/m <sup>3</sup> (Contains no fibers, respirable fraction)
		Canada Ontario; OEL TWA	0.1 fibers/cm <sup>3</sup> (fibers, inhalable fraction)
		Canada Ontario; OEL TWA	10 mg/m <sup>3</sup> (Contains no fibers, inhalable fraction)
		Canada, Ontario: OEL TWA	3mg/m <sup>3</sup> (Contains no fibers, respirable fraction)
		Canada, Quebec: VEMP	10 mg/m <sup>3</sup> (Contains no fibers, inhalable fraction)
		USA: ACGIH: TWA	0.1 fibers/cm <sup>3</sup> (fibers, inhalable fraction)
		USA: ACGIH: TWA	10mg/m <sup>3</sup> (inhalable fraction)
		USA: ACGIH: TWA	3 mg/m <sup>3</sup> (respirable fraction)
		USA: NIOSH: TWA	10 mg/m <sup>3</sup> (inhalable fraction)
		USA: NIOSH: TWA	5 mg/m <sup>3</sup> (respirable fraction)
		USA: OSHA: TWA	15 mg/m <sup>3</sup> (inhalable fraction)
USA: OSHA: TWA	5 mg/m <sup>3</sup> (respirable fraction)		
65997.17-3	Fiber glass weaves	Canada, Alberta: OEL 8 hour	1 fibers/cm <sup>3</sup> Glass Fibers, continuous filament
		Canada, Alberta: OEL 8 hour	5 mg/m <sup>3</sup> Glass Fibers, continuous filament, Glass wool, inhalable fraction
		Canada, BC: OEL TWA	1 fibers/cm <sup>3</sup> Synthetic Vitreous Fibers-Continuous filament glass fibers
		Canada, BC: OEL TWA	5 mg/m <sup>3</sup> Synthetic Vitreous Fibers-Continuous filament glass fibers; inhalable fraction
		Canada, Ontario: OEL TWA	1 fibers/cm <sup>3</sup> Synthetic Vitreous Fibers-Continuous filament glass fibers
		Canada, Ontario: OEL TWA	5 mg/m <sup>3</sup> Synthetic Vitreous Fibers (Man Made Mineral Fibers), Continuous filament glass fibers
		Canada, Quebec: VEMP	10 mg/m <sup>3</sup> Continuous filament glass fibers
			Pt note 1

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		USA: ACGIH: TWA	1 fibers/cm <sup>3</sup> Synthetic vitreous fibers, Continuous filament glass fibers
		USA: ACGIH: TWA	5 mg/m <sup>3</sup> Synthetic vitreous fibers, Continuous filament glass fibers; inhalable fraction
		USA: NIOSH: TWA	3 fibers/cm <sup>3</sup> Fibers less than or equal to 3,5 um in diameter and greater than or equal to 10 um in length
		USA: NIOSH: TWA	5 mg/m <sup>3</sup> Fiber glass, Fiberglass, Glass fibers, Glass wool, total dust
1314-23-4	Zirconium dioxide	Canada, Alberta: OEL 15 min Canada, Alberta: OEL 8 hour Canada, BC OEL STEL Canada, BC OEL TWA Canada Quebec: VECD  Canada Quebec: VEMP  USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH: STEL USA: NIOSH: TWA USA: OSHA: TWA	10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> (Zirconium and compounds, calculated as Zr) 5 mg/m <sup>3</sup> (Zirconium and compounds, calculated as Zr) 10 mg/m <sup>3</sup> (calculated as Zr) 5 mg/m <sup>3</sup> (calculated as Zr) 10 mg/m <sup>3</sup> (calculated as Zr) 5 mg/m <sup>3</sup> (calculated as Zr) 5 mg/m <sup>3</sup> (calculated as Zr)
471-34-1	Calcium carbonate	Canada, Alberta: OEL 8 hour Canada, BC OEL STEL  Canada, BC: OEL TWA  Canada Quebec: VEMP USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	10 mg/m <sup>3</sup> 20 mg/m <sup>3</sup> (Calcium carbonate incl. Limestone, Marble) 10 mg/m <sup>3</sup> (Calcium carbonate incl. Limestone, Marble) 10 mg/m <sup>3</sup> (inhalable fraction) 10 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction) 15 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction)
60304-36-1	Aluminum potassium fluoride	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada Quebec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	2.5 mg/m <sup>3</sup> (calculated as F) 2.5 mg/m <sup>3</sup> (calculated as F) 2.5 mg/m <sup>3</sup> (calculated as F) 2.5 mg/m <sup>3</sup> (Fluorides, calculated as F) 2.5 mg/m <sup>3</sup> (calculated as F) 2.5 mg/m <sup>3</sup> (calculated as F)
14075-53-7	Potassium tetrafluoroborate	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada Quebec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	2.5 mg/m <sup>3</sup> (calculated as F) 2.5 mg/m <sup>3</sup> (calculated as F) 2.5 mg/m <sup>3</sup> (calculated as F) 2.5 mg/m <sup>3</sup> (Fluorides, calculated as F) 2.5 mg/m <sup>3</sup> (calculated as F) 2.5 mg/m <sup>3</sup> (calculated as F)

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13775-53-6	Trisodium hexafluoroaluminate (cryolite)	<p>Canada, Alberta: OEL 8 hour</p> <p>Canada, BC: OEL TWA</p> <p>Canada Quebec: VEMP</p> <p>USA: ACGIH: TWA</p> <p>USA: NIOSH: TWA</p> <p>USA: OSHA: TWA</p>	<p>2.5 mg/m<sup>3</sup> (calculated as F)</p> <p>2.5 mg/m<sup>3</sup> (calculated as F)</p> <p>2.5 mg/m<sup>3</sup> (calculated as F)</p> <p>2.5 mg/m<sup>3</sup> (Fluorides, calculated as F)</p> <p>2.5 mg/m<sup>3</sup> (calculated as F)</p> <p>2.5 mg/m<sup>3</sup> (calculated as F)</p>
1332-58-7	Kaolin	<p>Canada, Alberta: OEL 8 hour</p> <p>Canada, BC: OEL TWA</p> <p>Canada Quebec: VEMP</p> <p>USA: ACGIH: TWA</p> <p>USA: NIOSH: TWA</p> <p>USA: NIOSH: TWA</p> <p>USA: OSHA: TWA</p> <p>USA: OSHA: TWA</p>	<p>2 mg/m<sup>3</sup></p> <p>2 mg/m<sup>3</sup></p> <p>5 mg/m<sup>3</sup></p> <p>2 mg/m<sup>3</sup></p> <p>respirable fraction (particulate matter containing no asbestos and &lt;1% crystalline silica)</p> <p>10 mg/m<sup>3</sup> (inhalable fraction)</p> <p>5 mg/m<sup>3</sup> (respirable fraction)</p> <p>15 mg/m<sup>3</sup> (inhalable fraction)</p> <p>5 mg/m<sup>3</sup> (respirable fraction)</p>
13463-67-7	Titanium dioxide	<p>Canada, Alberta: OEL 8 hour</p> <p>Canada, BC: OEL TWA</p> <p>Canada, BC: OEL TWA</p> <p>Canada, Quebec: VEMP</p> <p>USA: ACGIH: TWA</p> <p>USA: OSHA: TWA</p>	<p>10 mg/m<sup>3</sup></p> <p>10 mg/m<sup>3</sup></p> <p>3 mg/m<sup>3</sup> (respirable fraction)</p> <p>10 mg/m<sup>3</sup> (inhalable fraction)</p> <p>10 mg/m<sup>3</sup></p> <p>15 mg/m<sup>3</sup></p>
1309-37-1	Diiron trioxide	<p>Canada, Alberta: OEL 8 hours</p> <p>Canada, BC OEL STEL</p> <p>Canada, BC: OEL TWA</p> <p>Canada, BC: OEL TWA</p> <p>Canada, BC: OEL TWA</p> <p>Canada, BC: OEL TWA</p> <p>Canada, Quebec; VEMP</p> <p>Canada, Quebec; VEMP</p> <p>USA: ACGIH; TWA</p> <p>USA: OSHA: TWA</p> <p>USA: OSHA: TWA</p> <p>USA: OSHA: TWA</p>	<p>5 mg/m<sup>3</sup> (respirable fraction)</p> <p>10 mg/m<sup>3</sup> Smoke; calculated as Fe</p> <p>10 mg/m<sup>3</sup> (oxide, red)</p> <p>3 mg/m<sup>3</sup> (oxide, red) respirable fraction</p> <p>5 mg/m<sup>3</sup> (oxide dust)</p> <p>5mg/m<sup>3</sup> Smoke; calculated as Fe</p> <p>10 mg/m<sup>3</sup> (red)</p> <p>5 mg/m<sup>3</sup></p> <p>5 mg/m<sup>3</sup> (respirable fraction)</p> <p>10 mg/m<sup>3</sup></p> <p>(Iron oxide, fume; calculated as Fe)</p> <p>15 mg/m<sup>3</sup> (inhalable fraction, red)</p> <p>5 mg/m<sup>3</sup> (red, respirable fraction)</p>
7631-86-9	Silicon dioxide	<p>USA: NIOSH: TWA</p> <p>USA: OSHA: TWA</p> <p>USA: OSHA: TWA</p>	<p>6 mg/m<sup>3</sup></p> <p>20 mppcf</p> <p>80 mg/m<sup>3</sup> total dust</p>
1309-48-4	Magnesium oxide	<p>Canada, Alberta: OEL 8 hours</p> <p>Canada, BC OEL STEL</p> <p>Canada, BC: OEL TWA</p> <p>Canada, Quebec; VEMP</p> <p>USA: ACGIH; TWA</p> <p>USA: OSHA: TWA</p>	<p>10 mg/m<sup>3</sup></p> <p>10 mg/m<sup>3</sup> respirable fraction, Smoke and Dusts</p> <p>3 mg/m<sup>3</sup> respirable fraction, Smoke and Dusts</p> <p>10 mg/m<sup>3</sup></p> <p>10 mg/m<sup>3</sup> (inhalable fraction)</p> <p>15 mg/m<sup>3</sup></p>

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1305-78-8	Calcium oxide	Canada, Alberta: OEL 8 hours Canada, BC OEL TWA Canada, Quebec: VEMP USA: ACGIH; TWA USA: NIOSH: TWA USA: OSHA: TWA	2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	Canada Alberta: OEL 8 hour Canada, BC:OEL TWA Canada, Ontario: OEL TWA Canada, Quebec: VEMP USA: ACGIH:TWA USA: NIOSH: TWA USA: OSHA: TWA  USA:OSHA : TWA USA OSHA: TWA	0.025 mg/m <sup>3</sup> 0.025 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> (respirable fraction) 0.1 mg/m <sup>3</sup> (respirable fraction) 0.025 mg/m <sup>3</sup> (respirable fraction) 0.05 mg/m <sup>3</sup> (respirable fraction) 10 mg/m <sup>3</sup> /% SiO <sub>2</sub> +2 (respirable fraction) 250 mppcf/%SiO <sub>2</sub> +5 (fine dust) 30 mg/m <sup>3</sup> /% SiO <sub>2</sub> +2 (inhalable fraction)
1333-86-4	Carbon Black	Canada Alberta: OEL 8 hour Canada, BC:OEL TWA Canada, Quebec: VEMP USA: ACGIH:TWA USA: NIOSH: TWA  USA: NIOSH: TWA USA: OSHA: TWA	3.5 mg/m <sup>3</sup> 3 mg/m <sup>3</sup> 3.5 mg/m <sup>3</sup> 3 mg/m <sup>3</sup> (inhalable fraction) 0.1 mg PAHs/m <sup>3</sup> Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs) 3.5 mg/m <sup>3</sup> 3.5 mg/m <sup>3</sup>
50-00-0	Formaldehyde	Canada, Alberta: OEL 8 hour Canada, Alberta: OEL Ceiling Canada, BC: OEL Ceiling Canada, BC: OEL TWA Canada, Ontario: OEL Ceiling Canada, Ontario: OEL STEL Canada, Quebec: Plafond NIOSH: Ceiling USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH:TWA USA: OSHA: STEL USA: OSHA: TWA	0.9 mg/m <sup>3</sup> , 0.75ppm 1.3 mg/m <sup>3</sup> , 1 ppm 1 ppm 0.3 ppm 1.5 ppm 1 ppm 3 mg/m <sup>3</sup> , 2 ppm 0.1 ppm 0.3 ppm (DSEN,RSEN,A1) 0.1 ppm (DSEN,RSEN,A1) 0.016 ppm 2 ppm 0.75 ppm



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Biological limit values:

CAS NO.	Designation	Type	Limit Value	Parameter	Sampling
60304-36-1	Aluminum potassium fluoride	USA: ACGIH-BEI, blood	3 mg/L	Fluorides	end of exposure or end of shift
		USA: ACGIH-BEI, urine	2 mg/L	Fluorides	prior to shift
14075-53-7	Potassium tetrafluoroborate	USA: ACGIH-BEI, blood	3 mg/L	Fluorides	end of exposure or end of shift
		USA: ACGIH-BEI, urine	2 mg/L	Fluorides	prior to shift
13775-53-6	Trisodium hexafluoroaluminate	USA: ACGIH-BEI, blood	3 mg/L	Fluorides	end of exposure or end of shift
		USA: ACGIH-BEI, urine	2 mg/L	Fluorides	prior to shift

### Engineering controls

Provide good ventilation and/or an exhaust system in the work area.

Technical measures and the application of suitable work processes have priority over personal protection equipment.

In case of development of vapors or dust: The use of a local exhaust ventilation is recommended.

Also see information in section 7, storage

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard-29 CFR: 1910.133 or ANSI Z87.1-2010.

skin protection: Wear suitable protective clothing and shoes.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

Use appropriate respiratory protection.:

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations: Do not inhale substance.

Avoid contact with skin and eyes.

When using do not eat, drink or smoke. Change contaminated clothing.

Wash hands before breaks and after work.

Work place should be equipped with a shower and an eye rinsing apparatus.

Obtain special instructions before use.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance:	Form: Solid
	Color: varying colors
Odor:	No data available
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available

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auto-ignition temperature: No data available  
Thermal decomposition: No data available  
Additional information: No data available

**10. Stability and Reactivity**

Reactivity: No data available  
Chemical Stability: Stable under recommended storage conditions.  
Possibility of hazardous reactions: No hazardous reaction when handled and stored according to provisions.  
Conditions to avoid: No data available  
Incompatible materials: Oxidizing agents, acids.  
Hazardous decomposition products: Hydrogen fluoride, boron compounds, carbon monoxide and carbon dioxide (CO2).  
Thermal decomposition: No data available

**11. Toxicological Information**

**Toxicological tests**

Toxicological effects: The statements are derived from the properties of the single components. No Toxicological data is available for the product as such.  
Acute toxicity (oral): Based on available data, the classification criteria are not met.  
Acute toxicity (dermal): Lack of data.  
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.  
Skin corrosion/irritation: Lack of data.  
Serious eye damage/irritation: Eye irritation 2A = Causes serious eye irritation.  
Sensitisation to the respiratory tract: Lack of data.  
Skin sensitisation: Lack of data.  
Germ cell mutagenicity/Genotoxicity: Lack of data  
Carcinogenicity: Carcinogenicity 1A = May cause cancer.  
Reproductive toxicity: Lack of data  
Effects on or via lactation: Toxic to reproduction (lactation) = May cause harm to breast-fed children.  
Specific target organ toxicity (single exposure): Lack of data.  
Specific target organ toxicity (repeated exposure): 1 = Causes damage to organs through prolonged or repeated exposure.  
Aspiration hazard: Lack of data.

Other information: Information about Aluminum potassium fluoride.  
LD50, Rat, oral: >2000 mg/kg  
LC50, Rat, inhalative: > 3.4 mg/L/h  
LD50, Rabbit, dermal: >2000 mg/kg  
  
Information about Trisodium hexafluoroaluminate (cryolite):  
LD50, Rat, oral: >5000 mg/kg  
LC50, Rat, inhalative: > 4.47 mg/L/h  
LD50, Rabbit, dermal: >2100 mg/kg  
  
Chronic toxicity carcinogenic effects:  
  
Information about Titanium dioxide:  
IARC Rating: Group 2B  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
  
Information about Diiron trioxide:  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
  
Information about Silicon dioxide:

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IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed

Information about Quartz (SiO<sub>2</sub>):  
IARC Rating: Group 1  
OSHA Carcinogen: not listed  
NTP Rating: listed

**12. Ecological Information**

**Ecotoxicity**

Aquatic toxicity: Harmful to aquatic life with long lasting effects.  
Information about Trisodium hexafluoroaluminate (cryolite);  
Algae toxicity:  
EC50 Pseudokirchneriella subcapitata (green algae): 8.8 mg/L/72h (OECD 201)  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): 156 mg/L/48h (OECD 202)  
Fish toxicity:  
LC50 Brachydanio rerio (zebra-fish): 99 mg/L/96h (OECD 203)

**Mobility in soil**

No data available

**Persistence and degradability**

Further details: No data available

**Additional ecological information**

General information: Do not allow to enter into ground-water, surface water or drains.

**13. Disposal Considerations**

**Product**

Recommendation: Dispose of waste according to applicable legislation.

**Contaminated packaging**

Recommendation: Dispose of waste according to applicable legislation. Packing can be recycled or disposed of.

**14. Transport Information**

**USA: Department of Transportation (DOT)**

Proper shipping name: Not restricted

**Canada: Transportation of Dangerous Goods (TDG)**

Shipping name: Not restricted

**Sea transport (IMDG)**

Proper shipping name: Not restricted

Marine pollutant: No

**Air transport (IATA)**

Proper shipping name: Not restricted

**Further information**

No dangerous goods in sense of these transport regulations.

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### 15. Regulatory Information

#### National regulations - Canada

No data available

#### National regulations - U.S. Federal Regulations

Product: This product is an article as defined by TSCA regulations, and is exempt from TSCA inventory listing requirements.

Alluminum oxide: Other Environmental Laws:  
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard

NIOSH Recommendations:  
Occupational Health Guideline: 0021

Silicon carbide: NIOSH Recommendations:  
Occupational Health Guideline: 0555

Kaolin: NIOSH Recommendations:  
Occupational Health Guideline: 0364

Titanium dioxide: Carcinogen Status:  
IARC Rating: Group 2B  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
NIOSH Recommendations:  
Occupational Health Guideline: 0617

Diiron trioxide: Carcinogen Status:  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
NIOSH Recommendations:  
Occupational Health Guideline: 0344

Silicon dioxide: Carcinogen Status:  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
NIOSH Recommendations:  
Occupational Health Guideline: 0552

Magnesium oxide: NIOSH Recommendations:  
Occupational Health Guideline: 0374

Calcium oxide: NIOSH Recommendations:  
Occupational Health Guideline: 0093

Quartz (SiO<sub>2</sub>): Carcinogen Status:  
IARC Rating: Group 1  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
NIOSH Recommendations:  
Occupational Health Guideline: 0553

Carbon black: Carcinogen Status:  
IARC Rating: Group 2B  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
NIOSH Recommendations:  
Occupational Health Guideline: 0102

# SAFETY DATA SHEET (SDS)



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Formaldehyde: Carcinogen Status:  
IARC Rating: Group 1  
OSHA Carcinogen: not listed  
NTP Rating: listed  
Clean Air Act:  
Accidental Release Prevention: Threshold 15000 lbs. / Basis for listing = b  
Hazardous Air Pollutants: Code XOY  
SOCMI Chemical: yes  
Clean Water Act:  
Hazardous Substances: RQ 100 lbs.  
Other Environmental Laws:  
CERCLA: RQ 100 lbs.  
RCRA Hazardous Wastes: Code U122  
SARA Title III Section 302, EHS: TPQ 500 lbs. / RQ 100 lbs.  
SARA Title III Section 313, Toxic Release: Conc. 0.1% / Threshold Standard  
NIOSH Recommendations:  
Current Intelligence Bulletin: 81-111, 86-122  
Occupational Health Guideline: 0293\*  
OSHA Process Safety Management: Threshold 1000 lbs.

### National regulations - U.S. State Regulations

Aluminum Oxide: Delaware Air Quality Management List:  
DRQ: 100 - RQ State: State requirement differs from Federal  
Massachusetts Haz. Substance codes: F9  
Minnesota Haz. Substance:  
Codes: A - Ratings: 10.16 - Status: Title III. TRI.  
New Jersey RTK Hazardous Substance:  
DOT: - - Sub No.: 2891 - TPQ:  
Pennsylvania Haz. Substance code: E  
Washington Air Contaminant:  
TWA: 10 mg  
Zirconium dioxide: Massachusetts Haz. Substance codes: 2  
Titanium dioxide: California Proposition 65: cancer  
Rhode Island HSL: listed  
Diiron trioxide: Idaho Air Pollutant List:  
Title 585 -- AAC: 0.25 -- EL: 0.333 -- WEL: 5  
Title 586 -  
Massachusetts Haz. Substance codes: 2  
Pennsylvania Haz. Substance code: -  
Washington Air Contaminant:  
TWA: 5 mg  
Quartz (SiO<sub>2</sub>): California Proposition 65: cancer  
Rhode Island HSL: listed  
Carbon black: California Proposition 65: cancer  
Rhode Island HSL: listed

# SAFETY DATA SHEET (SDS)

## Coated Abrasives

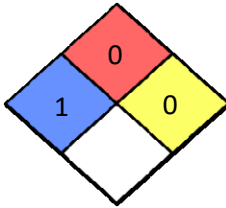
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Formaldehyde: California Proposition 65: cancer  
Delaware Air Quality Management List:  
DRQ: 100 - RQ State: Federal Regulations Apply  
Idaho Air Pollutant List:  
Title 585: AAC: - EL: - OEL: - Title 586: AAAC: 7.7E-02 - EL: 5/1E-04 - OEF: 1.3E-05  
Maine: HAP - 1000  
Massachusetts Haz. Substance codes: 1,2,3,4,5,6,7 \*E\*C\* F6  
Minnesota Haz. Substance:  
Codes: ANORT - Rating: 10.91 - Status: Air Pollutant. Carcinogen. Title III. TRI.  
New Jersey Extraordinarily Hazardous Substance:  
EPA Threshold: - NJ Threshold: 175 - NJ Group: II - NJ Table: I Part A - NJ Basis: Not on list  
New Jersey RTK Hazardous Substance:  
DOT: 1198 - Sub No.: 0946 - TPQ: - EHS: Yes  
New York List of Hazardous Substances:  
RQ-Air: 100 - RQ-Land 1 - Note: No Note Associated with this chemical.  
Pennsylvania Haz. Substance code: ES  
Washington Air Contaminant:  
TWA: 75 ppm -- mg - STEL: 2 ppm -- mg - Ceiling - ppm -- mg - Skin: -  
West Virginia Toxic Air Pollutant List (Pounds per Year): 1,000  
California Proposition 65: cancer  
Rhode Island HSL: listed

### 16. Other Information

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight) - Chronic effects

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

Reason of Change: None  
Date of Revision: None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products.