SAFETY DATA SHEET (SDS)

Non-Woven Abrasives
Revision Date: 1/2/2019
Version: 1

1. Product and Company Identification

Product Identifier

Trade Name: NON-WOVEN ABRASIVES

This safety data sheet pertains to the following products:
- Surface Conditioning Discs (quick change, hook & loop, flap), Stars, Belts
- Satin Finishing Discs (quick change, mounted), Wheels (for angle grinders, duplex, disc, goblet)
- Satin Finishing Flap Brushes (mounted and unmounted)
- Satin Finishing Stars, Hand Pads and Rolls
- Convolute Wheels
- Unitized Discs and Wheels
- Stripping Discs and Wheels

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.

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 advice/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:

Relevant ingredients:

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Designation</th>
<th>Content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS -</td>
<td>Nylon Fiber</td>
<td>&lt; 80%</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS 1344-28-1</td>
<td>Aluminium oxide</td>
<td>&lt; 70%</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS 409-21-2</td>
<td>Silicon carbide</td>
<td>&lt; 70%</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS -</td>
<td>Cloth</td>
<td>&lt; 60%</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS -</td>
<td>Synthetic resin, polymerized</td>
<td>&lt; 60%</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS 1314-23-4</td>
<td>Zirconium dioxide</td>
<td>&lt; 30%</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS -</td>
<td>Adhesive, cured</td>
<td>&lt; 30%</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS 471-34-1</td>
<td>Calcium carbonate</td>
<td>&lt; 25%</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS 14075-53-7</td>
<td>Potassium tetrafluoroborate</td>
<td>&lt; 20%</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS 1332-58-7</td>
<td>Kaolin</td>
<td>&lt; 15%</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS 13463-67-7</td>
<td>Titanium dioxide</td>
<td>&lt; 5%</td>
<td>Carcinogenicity 2</td>
</tr>
<tr>
<td>CAS 1345-25-1</td>
<td>Iron(II) oxide</td>
<td>&lt; 5%</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS -</td>
<td>Aluminum Silicates</td>
<td>&lt; 5%</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET (SDS)

Non-Woven Abrasives

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<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical</th>
<th>Concentration</th>
<th>Health Effects</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>13983-17-0</td>
<td>Wollastonite</td>
<td>&lt; 5%</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>7631-86-9</td>
<td>Silicon dioxide</td>
<td>&lt; 2%</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>26761-40-0</td>
<td>Diisodecylphthalate</td>
<td>&lt; 1.5%</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>9002-86-2</td>
<td>Polyvinyl chloride</td>
<td>&lt; 1.5%</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>-</td>
<td>Pigments</td>
<td>&lt; 1%</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>8042-47-5</td>
<td>White mineral oil (petroleum)</td>
<td>&lt; 1%</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>&lt;0.5%</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>1309-48-4</td>
<td>Magnesium oxide</td>
<td>&lt;0.5%</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>1305-78-8</td>
<td>Calcium oxide</td>
<td>&lt;0.5%</td>
<td>Skin Irritation 2. Eye Damage 1. Specific Target Organ Toxicity (Single Exposure) 3.</td>
<td></td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz (SiO2)</td>
<td>&lt;0.5%</td>
<td>Carcinogenicity 1A</td>
<td></td>
</tr>
<tr>
<td>12055-23-1</td>
<td>Hafnium dioxide</td>
<td>&lt;0.4%</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>64742-52-5</td>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>&lt;0.2%</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

Additional information: The ingredients are embedded in the product.

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.

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 materials should therefore be selected according to surroundings.

Specific hazards arising from the chemical: At temperatures above 482°F (250°C) hazardous decomposition products may be generated.

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.
### 8. Exposure Control / Personal Protection

#### Exposure guidelines

Occupational exposure limit values:

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>Designation</th>
<th>Type</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1344-28-1</td>
<td>Aluminium oxide</td>
<td>Canada, Alberta: OEL 8 hour</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: OSHA: TWA</td>
<td>15 mg/m³ (inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: OSHA: TWA</td>
<td>5mg/m³ (respirable fraction)</td>
</tr>
<tr>
<td>409-21-2</td>
<td>Silicon carbide</td>
<td>Canada, Alberta: OEL 8 hour</td>
<td>0.1 fibers/cm³ (fibers, inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada, Alberta: OEL 8 hour</td>
<td>10mg/m³ (contains no fibers, inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada, Alberta: OEL 8 hour</td>
<td>3 mg/m³ (contains no fibers, respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada BC: OEL TWA</td>
<td>0.1 fibers/cm³ (fibers, inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada BC: OEL TWA</td>
<td>10 mg/m³ (Contains no fibers, inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada BC: OEL TWA</td>
<td>3mg/m³ (Contains no fibers, respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada Ontario: OEL TWA</td>
<td>0.1 fibers/cm³ (fibers, inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada Ontario: OEL TWA</td>
<td>10 mg/m³ (Contains no fibers, inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada, Ontario: OEL TWA</td>
<td>3mg/m³ (Contains no fibers, respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada, Quebec: VEMP</td>
<td>10 mg/m³ (Contains no fibers, inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: ACGIH: TWA</td>
<td>0.1 fibers/cm³ (fibers, inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: ACGIH: TWA</td>
<td>10mg/m³ (inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: ACGIH: TWA</td>
<td>3 mg/m³ (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: NIOSH: TWA</td>
<td>10 mg/m³ (inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: NIOSH: TWA</td>
<td>5 mg/m³ (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: OSHA: TWA</td>
<td>15 mg/m³ (inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: OSHA: TWA</td>
<td>5 mg/m³ (respirable fraction)</td>
</tr>
<tr>
<td>1314-23-4</td>
<td>Zirconium dioxide</td>
<td>Canada, Alberta: OEL 8 hour</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada, Alberta: OEL 8 hour</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada, BC OEL STEL</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada, BC OEL TWA</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada Quebec: VECD</td>
<td>10 mg/m³ (Zirconium and compounds, calculated as Zr)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada Quebec: VEMP</td>
<td>5 mg/m³ (Zirconium and compounds, calculated as Zr)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: ACGIH: STEL</td>
<td>10 mg/m³ (calculated as Zr)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: ACGIH: TWA</td>
<td>5 mg/m³ (calculated as Zr)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: NIOSH: STEL</td>
<td>10 mg/m³ (calculated as Zr)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: NIOSH: TWA</td>
<td>5 mg/m³ (calculated as Zr)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: OSHA: TWA</td>
<td>5 mg/m³ (calculated as Zr)</td>
</tr>
<tr>
<td>60304-36-1</td>
<td>Aluminum potassium fluoride</td>
<td>Canada, Alberta: OEL 8 hour</td>
<td>2.5 mg/m³ (calculated as F)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada, BC: OEL TWA</td>
<td>2.5 mg/m³ (calculated as F)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada Quebec: VEMP</td>
<td>2.5 mg/m³ (calculated as F)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: ACGIH: TWA</td>
<td>2.5 mg/m³ (Fluorides, calculated as F)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: NIOSH: TWA</td>
<td>2.5 mg/m³ (calculated as F)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USA: OSHA: TWA</td>
<td>2.5 mg/m³ (calculated as F)</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------</td>
<td>-----------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>471-34-1</td>
<td>Calcium carbonate</td>
<td>10 mg/m³</td>
<td>20 mg/m³</td>
</tr>
<tr>
<td>13775-53-6</td>
<td>Trisodium hexafluoroaluminate (cryolite)</td>
<td>2.5 mg/m³ (calculated as F)</td>
<td>2.5 mg/m³ (calculated as F)</td>
</tr>
<tr>
<td>14075-53-7</td>
<td>Potassium tetrafluoroborate</td>
<td>2.5 mg/m³ (calculated as F)</td>
<td>2.5 mg/m³ (calculated as F)</td>
</tr>
<tr>
<td>1332-58-7</td>
<td>Kaolin</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
<td>10 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>13983-17-0</td>
<td>Wollastonite</td>
<td>10 mg/m³ (inhalable fraction)</td>
<td>5 mg/m³ (respirable fraction)</td>
</tr>
<tr>
<td>7631-86-9</td>
<td>Silicon dioxide</td>
<td>6 mg/m³</td>
<td>20 mppcf</td>
</tr>
<tr>
<td>26761-40-0</td>
<td>Diisodecylphthalate</td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>9002-86-2</td>
<td>Polyvinyl chloride</td>
<td>1 mg/m³ (respirable fraction)</td>
<td></td>
</tr>
<tr>
<td>CAS Number</td>
<td>Substance</td>
<td>Canada Alberta: OEL 8 hour</td>
<td>Canada, BC: OEL TWA</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------</td>
<td>---------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon Black</td>
<td>3.5 mg/m³</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Canada Alberta: OEL 8 hour</td>
<td>3 mg/m³</td>
<td></td>
</tr>
<tr>
<td>1309-48-4</td>
<td>Magnesium oxide</td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>1305-78-8</td>
<td>Calcium oxide</td>
<td>2 mg/m³</td>
<td></td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz (SiO²)</td>
<td>0.025 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Canada Alberta: OEL 8 hour</td>
<td>0.025 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Canada, Ontario: OEL TWA</td>
<td>0.1 mg/m³ (respirable fraction)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>USA: ACGIH: TWA</td>
<td>0.025 mg/m³ (respirable fraction)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>USA: NIOSH: TWA</td>
<td>250 mppcf (% SiO₂+5) (fine dust)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>USA: OSHA: TWA</td>
<td>250 mppcf (% SiO₂+5) (fine dust)</td>
<td></td>
</tr>
</tbody>
</table>
Biological limit values:

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>Designation</th>
<th>Type</th>
<th>Limit Value</th>
<th>Parameter</th>
<th>Sampling</th>
</tr>
</thead>
<tbody>
<tr>
<td>60304-36-1</td>
<td>Aluminum potassium fluoride</td>
<td>USA: ACGIH-BEI,</td>
<td>3 mg/L</td>
<td>Fluorides</td>
<td>end of exposure or end of shift</td>
</tr>
<tr>
<td></td>
<td></td>
<td>blood, USA: ACGIH-BEI</td>
<td>2 mg/L</td>
<td>Fluorides</td>
<td>prior to shift</td>
</tr>
<tr>
<td>14075-53-7</td>
<td>Potassium tetrafluoroborate</td>
<td>USA: ACGIH-BEI,</td>
<td>3 mg/L</td>
<td>Fluorides</td>
<td>end of exposure or end of shift</td>
</tr>
<tr>
<td></td>
<td></td>
<td>blood, USA: ACGIH-BEI</td>
<td>2 mg/L</td>
<td>Fluorides</td>
<td>prior to shift</td>
</tr>
<tr>
<td>13775-53-6</td>
<td>Trisodium hexafluoroaluminate (cryolite)</td>
<td>USA: ACGIH-BEI,</td>
<td>3 mg/L</td>
<td>Fluorides</td>
<td>end of exposure or end of shift</td>
</tr>
<tr>
<td></td>
<td></td>
<td>blood, USA: ACGIH-BEI</td>
<td>2 mg/L</td>
<td>Fluorides</td>
<td>prior to shift</td>
</tr>
</tbody>
</table>

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)

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
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: At temperatures above 482°F (250°C) hazardous decomposition products may be generated.
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): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
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/4h
LD50, Rabbit, dermal: >2100 mg/kg

For carcinogenic effects:
Information about Titanium dioxide:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: not listed

Information about Wollastonite:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Information about Silicon dioxide:
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
Only dangerous if carried on tank-ships.

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.

Aluminum 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

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

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

Polyvinyl chloride:
Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Carbon black: Carcinogen Status:
   IARC Rating: Group 2B
   OSHA Carcinogen: not listed
   NTP Rating: not listed
   NIOSH Recommendations:
      Occupational Health Guideline: 0102
Magnesium oxide: NIOSH Recommendations:
   Occupational Health Guideline: 0374
Calcium oxide: NIOSH Recommendations:
   Occupational Health Guideline: 0093
Quartz (SiO2): Carcinogen Status:
   IARC Rating: Group 1
   OSHA Carcinogen: not listed
   NTP Rating: not listed
   NIOSH Recommendations:
      Occupational Health Guideline: 0553

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
Diisodecylphthalate: California Proposition 65: developmental
   Rhode Island HSL: listed
Carbon black: California Proposition 65: cancer
   Rhode Island HSL: listed
Quartz (SiO2): California Proposition 65: cancer
   Rhode Island HSL: listed

16. Other Information

Hazard rating systems:

NFPA Hazard Rating:
   Health: 2 (Moderate)
   Fire: 0 (Minimal)
   Reactivity: 0 (Minimal)
HMIS Version III Rating:
   Health: 2 (Moderate) - Chronic effects
   Flammability: 0 (Minimal)
   Physical Hazard: 0 (Minimal)
   Personal Protection: X = Consult your supervisor

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.