SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

WHMIS Classification: D2A – Toxic Material causing other toxic effects.

Physical and Chemical Hazards:

The hazardous properties of the product are considered to be limited.

Human health:

The product has chronic health hazards. May irritate eyes and respiratory system. Prolonged or repeated contact may cause skin irritation.

Environment:

The product is not expected to be hazardous to the environment.

Label elements

Other hazards

Other:

None known.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

GHS:

<table>
<thead>
<tr>
<th>%</th>
<th>CAS-No.:</th>
<th>EC No.:</th>
<th>REACH Reg. No.</th>
<th>Chemical name</th>
<th>Hazard classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>65-80</td>
<td>1344-28-1</td>
<td>418-390-1</td>
<td>01-2119529248-35-XXXX</td>
<td>Aluminium oxide</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>15-30</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Polyurethane Elastomer</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>1-5</td>
<td>13463-67-7</td>
<td>236-675-5</td>
<td></td>
<td>Titanium dioxide</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>1-5</td>
<td>1309-37-1</td>
<td>215-168-2</td>
<td>01-2119457614-35-XXXX</td>
<td>Iron oxide</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>0.1-1</td>
<td>7631-86-9</td>
<td>231-545-4</td>
<td></td>
<td>Silicon dioxide, amorphous</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&lt;0.5</td>
<td>919-30-2</td>
<td>213-048-4</td>
<td></td>
<td>3-Aminopropytriethoxysilane</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation: Move into fresh air. Seek medical attention as needed.

Skin contact: Wash with water. Seek medical attention as needed.

Eye contact: Immediately flush with plenty of water for up to 10 minutes. Seek medical attention as needed.

Ingestion: Get medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/effects: See section 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: None known.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Special hazards arising from the substance or mixture

Specific hazards: In case of fire very toxic fumes of hydrogen cyanide (prussic acid) and (NOx) may be formed.

Advice for firefighters

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.
SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid inhalation of dust. Follow precautions for safe handling described in this safety data sheet.

Environmental precautions

Environmental precautions: No special precautions.

Methods and material for containment and cleaning up

Spill Cleanup Methods: Collect spillage with vacuum cleaner, shovel, broom or the like.

Reference to other sections

References: For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Safe handling advice: Avoid inhalation of dust and contact with skin and eyes.

Technical measures: Use work methods which minimize dust production.

Technical precautions: Mechanical ventilation or local exhaust ventilation may be required.

Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: No special precautions.

Storage conditions: Store in a dry place.

Specific end use(s)

Specific use(s): Not relevant.
## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Occupational exposure limits:**

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical name</th>
<th>As:</th>
<th>Exposure limits</th>
<th>Type:</th>
<th>Notes</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309-37-1</td>
<td>Iron oxide (Fe2O3), Respirable</td>
<td>-</td>
<td>5 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>Alberta</td>
</tr>
<tr>
<td>1309-37-1</td>
<td>Iron oxide, dust</td>
<td>Fe</td>
<td>5 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>BC</td>
</tr>
<tr>
<td>1309-37-1</td>
<td>Iron oxide, fume</td>
<td>Fe</td>
<td>5 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>BC</td>
</tr>
<tr>
<td>1309-37-1</td>
<td>Iron oxide (Fe2O3), respirable fraction</td>
<td>-</td>
<td>10 mg/m³</td>
<td>STEL</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>1309-37-1</td>
<td>Iron oxide, dust</td>
<td>Fe</td>
<td>5 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>ACGIH Ontario</td>
</tr>
<tr>
<td>1344-28-1</td>
<td>Aluminum oxide</td>
<td>-</td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>Alberta</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
<td>-</td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>3</td>
<td>Alberta</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide, respirable fraction</td>
<td>-</td>
<td>3 mg/m³</td>
<td>TWA</td>
<td>2B</td>
<td>BC</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide, total dust</td>
<td>-</td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>2B</td>
<td>BC</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
<td>-</td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>ACGIH</td>
<td>Ontario</td>
</tr>
</tbody>
</table>

**Notes:**
- 2B: Possibly carcinogen to humans.
- 3: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.

### Exposure controls

**Engineering measures:** Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. Provide easy access to water supply and eye wash facilities.

**Personal protection:** Personal protection equipment should be chosen according to the relevant standards and in discussion with the supplier of the personal protective equipment.

**Respiratory equipment:** In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter.

**Hand protection:** Wear protective gloves suitable to protect for mechanical abrasions.

**Eye protection:** Wear safety goggles for protection of abrasive materials.

**Skin protection:** Wear appropriate clothing to prevent any possibility of skin contact.

**Hygiene measures:** Wash hands after handling.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Appearance:** Solid.

**Color:** Silver with gray

**Odor:** Slightly pungent odour.

**Odour Threshold (ppm):** Not applicable.

**pH:** None.

**Melting point:** None.

**Boiling point:** None.

**Flash point:** >200°C

**Evaporation rate:** Not applicable.

**Vapor pressure:** None.

**Vapour density:** None.

**Solubility:** Insoluble in water.

**Partition coefficient (n-octanol/water):** Not applicable.

**Explosive properties:** No static sensitivity to Sponge Media when dust concentration levels remain below 200 g/m3.

**Other information**

SECTION 10: STABILITY AND REACTIVITY

**Reactivity**

**Reactivity:** None known.

**Chemical stability**

**Stability:** Stable under normal temperature conditions.

**Possibility of hazardous reactions**

**Hazardous Reactions:** None known.

**Conditions to avoid**

**Conditions/materials to avoid:** None known.

**Incompatible materials**

**Incompatible materials:** Sodium hypochlorite

**Hazardous decomposition products**

**Hazardous decomposition products:** Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Isocyanates.
SECTION 11: TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

**Inhalation:** Dust may irritate throat and respiratory system and cause coughing.

**Skin contact:** Prolonged or repeated contact may cause irritation.

**Eye contact:** May cause temporary eye irritation.

**Ingestion:** Ingestion of large quantities may cause gastrointestinal irritation.

**Specific effects:** Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

**Physical data comments:** Sensitization: Not applicable to finished product.

Carcinogenicity:
- IARC Cancer Review: Group 2B for Titanium dioxide.
- IARC Cancer Review: Group 3 for Iron(III) Oxide

Mutagenicity: Not known.

Reproduction Toxicity: Not known.

SECTION 12: ECOLOGICAL INFORMATION

**Toxicity**

**Ecotoxicity:** There are no data on the ecotoxicity of this product.

**Persistence and degradability**

**Degradability:** The product consists mainly of inorganic compounds, which are not biodegradable.

**Bioaccumulative potential**

**Bioaccumulative potential:** No data available on bioaccumulation.

**Mobility in soil**

**Mobility:** Not known.

**Results of PBT and vPvB assessment**

**PBT/vPvB:** Not known.

**Other adverse effects**

**Other adverse effects:** None known.

SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Residues of unused product is not regarded as hazardous waste.
SECTION 14: TRANSPORT INFORMATION
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, TDG).

**UN number**
UN-No: -

**UN proper shipping name**
Proper Shipping Name: -

**Transport hazard class(es)**
Class: -

**Packing group**
PG: -

**Environmental hazards**
Marine pollutant: -
Environmentally Hazardous substance: -

**Special precautions for user**
Special precautions: -

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Transport in bulk: -

SECTION 15: REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Special provisions:**
DSL: All chemicals included in the product are DSL listed.

**National regulation:**
State and local regulations may apply.

Department of Justice. CPR – Controlled products Regulations. SOR/88-66, with amendments.
Department of Justice. IDL – Ingredient Disclosure List. SOR/88-64, 31 December 1987, with amendments.
Canadian Environmental Protection Act, Reporting for the Domestic Substances List (DSL), with amendments.
British Columbia: Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, with amendments.
Ontario: Control of Exposure to Biological or Chemical Agents R.R.O. 1990, Reg. 833, with amendments.
Quebec: Regulation respecting the quality of the work environment (R.R.Q. 1981, S-2.1, r.15), with amendments.

**Chemical Safety Assessment**

**CSA status:** Not relevant.
The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.