

# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



## Organic Bonded Abrasives, Type II

Product number 011

Revision date: 14/12/2016  
Version: 3

Language: en-CA,US

Date of print: 19/12/2016  
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### 1. Product and company identification

#### Product identifier

Trade name: Organic Bonded Abrasives, Type II  
This safety data sheet pertains to the following products:  
Mounted Points, resin bond  
Cones and plugs, resin bond, aluminum oxide  
Reinforced Cut-off Wheels (all types/shapes)  
Reinforced Grinding Wheels (all types/shapes)  
Snagging Wheels  
Cup 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:	PFERD INC.	PFERD CANADA INC.
Street/POB-No.:	9201 W. Heather Ave.	Street/POB-No.: 5570 McAdam Road
Postal Code, city:	Milwaukee, WI 53224, USA	Postal Code, city: Mississauga, Ontario L4Z 1P1, Canada
WWW:	www.pferdusa.com	WWW: www.pferdusa.com
E-mail:	sales@pferdusa.com	E-mail: sales@pferdcanada.ca
Telephone:	262-509-5614	Telephone: (905) 501-1555
Telefax:	262-255-2840	Telefax: (905) 501-1554
Dept. responsible for information:	1-800-342-9015	Dept. responsible for information: 1-866-245-1555

#### Emergency phone number

**USA/Canada: 1-800-255-3924**

### 2. Hazards identification

#### Emergency overview

Appearance: Form: solid  
Color: varying colors  
Odor: No data available  
Classification: Article not subject to hazard labeling or classification.

#### Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

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### Hazards not otherwise classified

Mechanical processing can produce particles and dust.  
Inhalation of dust may cause irritation of the respiratory system.  
Harmful if inhaled. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure. May cause harm to breast-fed children. Harmful to aquatic life with long lasting effects.  
see section 11: Toxicological information

### 3. Composition / Information on ingredients

Chemical characterisation: Mounted points, grinding-, cut-off-, and cup-wheels.

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Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 1344-28-1	Aluminium oxide	< 95 %	not applicable
CAS 409-21-2	Silicon carbide	< 95 %	not applicable
CAS -	synthetic resin, polymerized	< 30 %	not applicable
CAS 1314-23-4	Zirconium dioxide	< 25 %	not applicable
CAS 12068-85-8	Iron disulfide	< 20 %	not applicable
CAS 60304-36-1	Aluminum potassium fluoride	< 20 %	Acute Toxicity 4 (inhalative). Eye Irritation 2A. Toxic to Reproduction (Lactation). Specific Target Organ Toxicity (Repeated Exposure) 1. Aquatic toxicity - chronic 3.
CAS 13775-53-6	Trisodium hexafluoroaluminate (cryolite)	< 15 %	Acute Toxicity 4 (inhalative). Toxic to Reproduction (Lactation). Specific Target Organ Toxicity (Repeated Exposure) 1. Aquatic toxicity - chronic 2.
CAS 65997-17-3	Fibre glass weaves	< 15 %	not applicable
CAS 1308-56-1	Copper iron disulphide	< 10 %	not applicable
CAS 1314-98-3	Zinc sulphide	< 10 %	not applicable
CAS 471-34-1	Calcium carbonate	< 8 %	not applicable
CAS 7773-01-5	Manganese dichloride	< 7 %	Acute Toxicity 4 (oral). Eye Damage 1. Specific Target Organ Toxicity (Repeated Exposure) 2. Aquatic toxicity - chronic 2.
CAS 13463-67-7	Titanium dioxide	< 5 %	Carcinogenicity 2.
CAS 1309-37-1	Diiron trioxide	< 5 %	not applicable
CAS 9002-88-4	Polyethylene	< 5 %	not applicable
CAS 7789-75-5	Calcium fluoride	< 4 %	not applicable
CAS 598-62-9	Manganese carbonate	< 4 %	not applicable
CAS -	fleece	< 3 %	not applicable
CAS -	paper	< 2 %	not applicable
CAS 7782-42-5	Graphite	< 2 %	not applicable
CAS 1308-38-9	Chromium oxide	< 2 %	not applicable
CAS 1312-81-8	Lanthanum oxide	< 1 %	not applicable
CAS 7631-86-9	Silicon dioxide	< 1 %	not applicable
CAS 1309-48-4	Magnesium oxide	< 0.5 %	not applicable
CAS 1314-36-9	yttrium 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 (SiO <sub>2</sub> )	< 0.5 %	Carcinogenicity 1A.
CAS 12055-23-1	Hafnium dioxide	< 0.4 %	not applicable

Additional information: The ingredients are embedded in the product.

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### 4. First aid measures

- In case of inhalation: Dusts/aerosols: Provide fresh air. If you feel unwell, seek medical advice.
- Following skin contact: Dusts/aerosols: Remove residues with soap and water. In case of skin reactions, consult a physician.
- After eye contact: Dusts/aerosols: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if any. In case of eye irritation consult an ophthalmologist.
- After swallowing: Dusts/aerosols: Rinse mouth with water. Give water to drink in small sips. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

#### Most important symptoms and effects, both acute and delayed

Dusts: Causes serious eye irritation. Harmful if inhaled.  
Can be irritating because of mechanical abrasion.

#### 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 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.

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### 7. Handling and storage

#### Handling

Advices 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.

#### Storage

Requirements for storerooms and containers:

Keep container tightly closed and dry.  
Keep in a cool, well-ventilated place.  
Keep only in the original container. Keep away from air. Protect from moisture.  
Only trained personnel may be allowed to enter storage area.

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 controls / personal protection

#### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
1344-28-1	Aluminium oxide	Canada, Alberta: OEL 8 hour	10 mg/m <sup>3</sup>
		Canada, Québec: VEMP	10 mg/m <sup>3</sup> (inhalable fraction)
		USA: OSHA: TWA	15 mg/m <sup>3</sup> inhalable fraction
		USA: OSHA: TWA	5 mg/m <sup>3</sup> (respirable fraction)
409-21-2	Silicon carbide	Canada, Alberta: OEL 8 hour	0.1 fibers/cm <sup>3</sup> (fibrous, including whiskers; inhalable fraction)
		Canada, Alberta: OEL 8 hour	10 mg/m <sup>3</sup> (non-fibrous; inhalable fraction)
		Canada, Alberta: OEL 8 hour	3 mg/m <sup>3</sup> (non-fibrous; respirable fraction)
		Canada, BC: OEL TWA	0.1 fibers/cm <sup>3</sup> (fibrous, including whiskers)
		Canada, BC: OEL TWA	10 mg/m <sup>3</sup> (non-fibrous; inhalable fraction)
		Canada, BC: OEL TWA	3 mg/m <sup>3</sup> (non-fibrous; respirable fraction)
		Canada, Ontario: OEL TWA	0.1 fibers/cm <sup>3</sup> (fibrous, including whiskers; inhalable fraction)
		Canada, Ontario: OEL TWA	10 mg/m <sup>3</sup> (non-fibrous; inhalable fraction)
		Canada, Ontario: OEL TWA	3 mg/m <sup>3</sup> (non-fibrous; respirable fraction)
		Canada, Québec: VEMP	10 mg/m <sup>3</sup> (non-fibrous; inhalable fraction)
		USA: ACGIH: TWA	0.1 fibers/cm <sup>3</sup> (fibrous, including whiskers)
		USA: ACGIH: TWA	10 mg/m <sup>3</sup> (inhalable fraction; particulate matter containing no asbestos and < 1% crystalline silica)
		USA: ACGIH: TWA	3 mg/m <sup>3</sup> (respirable fraction; particulate matter containing no asbestos and < 1% crystalline silica)
		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)		

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CAS No.	Designation	Type	Limit value	
1314-23-4	Zirconium dioxide	Canada, Alberta: OEL 15 min	10 mg/m <sup>3</sup>	
		Canada, Alberta: OEL 8 hour	5 mg/m <sup>3</sup>	
		Canada, BC: OEL STEL	10 mg/m <sup>3</sup>	
		Canada, BC: OEL TWA	5 mg/m <sup>3</sup>	
		Canada, Québec: VECD	10 mg/m <sup>3</sup>	
			(Zirconium and compounds, calculated as Zr)	
		Canada, Québec: VEMP	5 mg/m <sup>3</sup>	
			(Zirconium and compounds, calculated as Zr)	
		USA: ACGIH: STEL	10 mg/m <sup>3</sup> (calculated as Zr)	
		USA: ACGIH: TWA	5 mg/m <sup>3</sup> (calculated as Zr)	
		USA: NIOSH: STEL	10 mg/m <sup>3</sup> (calculated as Zr)	
USA: NIOSH: TWA	5 mg/m <sup>3</sup> (calculated as Zr)			
USA: OSHA: TWA	5 mg/m <sup>3</sup> (calculated as Zr)			
60304-36-1	Aluminum potassium fluoride	Canada, Alberta: OEL 8 hour	2.5 mg/m <sup>3</sup> (calculated as F)	
		Canada, BC: OEL TWA	2.5 mg/m <sup>3</sup> (calculated as F)	
		Canada, Québec: VEMP	2.5 mg/m <sup>3</sup> (calculated as F)	
		USA: ACGIH: TWA	2.5 mg/m <sup>3</sup>	
			(Fluorides, calculated as F)	
		USA: NIOSH: TWA	2.5 mg/m <sup>3</sup> (calculated as F)	
USA: OSHA: TWA	2.5 mg/m <sup>3</sup> (calculated as F)			
13775-53-6	Trisodium hexafluoroaluminate (cryolite)	Canada, Alberta: OEL 8 hour	2.5 mg/m <sup>3</sup> (calculated as F)	
		Canada, BC: OEL TWA	2.5 mg/m <sup>3</sup> (calculated as F)	
		Canada, Québec: VEMP	2.5 mg/m <sup>3</sup> (calculated as F)	
		USA: ACGIH: TWA	2.5 mg/m <sup>3</sup>	
			(Fluorides, calculated as F)	
		USA: NIOSH: TWA	2.5 mg/m <sup>3</sup> (calculated as F)	
USA: OSHA: TWA	2.5 mg/m <sup>3</sup> (calculated as F)			

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CAS No.	Designation	Type	Limit value
65997-17-3	Fibre glass weaves	Canada, Alberta: OEL 8 hour	1 fibers/cm <sup>3</sup> Glass Fibres, Continuous filament
		Canada, Alberta: OEL 8 hour	5 mg/m <sup>3</sup> Glass Fibres, continuous filament, glass wool, inhalable fraction
		Canada, BC: OEL TWA	1 fibers/cm <sup>3</sup> Synthetic Vitreous Fibres - Continuous filament glass fibres
		Canada, BC: OEL TWA	5 mg/m <sup>3</sup> Synthetic Vitreous Fibres - Continuous filament glass fibres; inhalable fraction
		Canada, Ontario: OEL TWA	1 fibers/cm <sup>3</sup> Synthetic Vitreous Fibres, Continuous filament glass fibres
		Canada, Ontario: OEL TWA	5 mg/m <sup>3</sup> Synthetic Vitreous Fibres (Man Made Mineral Fibres), Continuous filament glass fibres
		Canada, Québec: VEMP	10 mg/m <sup>3</sup> Fibre de verre en filament continu; Pt note 1
		USA: ACGIH: TWA	1 fibers/cm <sup>3</sup> Synthetic vitreous fibres, Continuous filament glass fibres
		USA: ACGIH: TWA	5 mg/m <sup>3</sup> Synthetic vitreous fibres, Continuous filament glass fibres; inhalable fraction
		USA: NIOSH: TWA	3 fibers/cm <sup>3</sup> Fibers less than or equal to 3,5 µm in diameter and greater than or equal to 10µm in length.
		USA: NIOSH: TWA	5 mg/m <sup>3</sup> Fiber glas®, Fiberglass, Glass fibers, Glass wool, total dust
		471-34-1	Calcium carbonate
Canada, BC: OEL STEL	20 mg/m <sup>3</sup> (Calcium carbonate incl. Limestone, Marble)		
Canada, BC: OEL TWA	10 mg/m <sup>3</sup> (Calcium carbonate incl. Limestone, Marble)		
Canada, Québec: VEMP	10 mg/m <sup>3</sup> (inhalable 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)		



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CAS No.	Designation	Type	Limit value
13463-67-7	Titanium dioxide	Canada, Alberta: OEL 8 hour	10 mg/m <sup>3</sup>
		Canada, BC: OEL TWA	10 mg/m <sup>3</sup>
		Canada, BC: OEL TWA	3 mg/m <sup>3</sup> respirable fraction
		Canada, Québec: VEMP	10 mg/m <sup>3</sup> (inhalable fraction)
		USA: ACGIH: TWA	10 mg/m <sup>3</sup>
		USA: OSHA: TWA	15 mg/m <sup>3</sup>
1309-37-1	Diiron trioxide	Canada, Alberta: OEL 8 hour	5 mg/m <sup>3</sup> (respirable fraction)
		Canada, BC: OEL STEL	10 mg/m <sup>3</sup> Smoke; calculated as Fe
		Canada, BC: OEL TWA	10 mg/m <sup>3</sup> (oxide, red)
		Canada, BC: OEL TWA	3 mg/m <sup>3</sup> (oxide, red) respirable fraction
		Canada, BC: OEL TWA	5 mg/m <sup>3</sup> (oxide dust)
		Canada, BC: OEL TWA	5 mg/m <sup>3</sup> Smoke; calculated as Fe
		Canada, Québec: VEMP	10 mg/m <sup>3</sup> (red)
		Canada, Québec: VEMP	5 mg/m <sup>3</sup>
		USA: ACGIH: TWA	5 mg/m <sup>3</sup> (respirable fraction)
		USA: OSHA: TWA	10 mg/m <sup>3</sup> (Iron oxide, fume; calculated as Fe)
		USA: OSHA: TWA	15 mg/m <sup>3</sup> (inhalable fraction, red)
		USA: OSHA: TWA	5 mg/m <sup>3</sup> (red, respirable fraction)
7789-75-5	Calcium fluoride	Canada, Alberta: OEL 8 hour	2.5 mg/m <sup>3</sup> (calculated as F)
		Canada, BC: OEL TWA	2.5 mg/m <sup>3</sup> (calculated as F)
		Canada, Québec: VEMP	2.5 mg/m <sup>3</sup> (calculated as F)
		USA: ACGIH: TWA	2.5 mg/m <sup>3</sup> (Fluorides, calculated as F)
		USA: NIOSH: TWA	2.5 mg/m <sup>3</sup> (calculated as F)
		USA: OSHA: TWA	2.5 mg/m <sup>3</sup> (calculated as F)
7782-42-5	Graphite	Canada, Alberta: OEL 8 hour	2 mg/m <sup>3</sup> (respirable fraction)
		Canada, BC: OEL TWA	2 mg/m <sup>3</sup> (respirable fraction)
		Canada, Québec: VEMP	2 mg/m <sup>3</sup>
		USA: ACGIH: TWA	2 mg/m <sup>3</sup> (respirable fraction)
		USA: NIOSH: TWA	2.5 mg/m <sup>3</sup> (respirable fraction)
		USA: OSHA: TWA	15 mg/m <sup>3</sup> (inhalable fraction)
		USA: OSHA: TWA	15 mppcf
		USA: OSHA: TWA	5 mg/m <sup>3</sup> (respirable fraction)
1308-38-9	Chromium oxide	Canada, Alberta: OEL 8 hour	0.5 mg/m <sup>3</sup>
		Canada, BC: OEL TWA	0.5 mg/m <sup>3</sup>
		Canada, Québec: VEMP	0.5 mg/m <sup>3</sup>
		USA: ACGIH: TWA	0.5 mg/m <sup>3</sup>
		USA: NIOSH: TWA	0.5 mg/m <sup>3</sup>
		USA: OSHA: TWA	0.5 mg/m <sup>3</sup>
7631-86-9	Silicon dioxide	USA: NIOSH: TWA	6 mg/m <sup>3</sup>
		USA: OSHA: TWA	20 mppcf
		USA: OSHA: TWA	80 mg/m <sup>3</sup> total dust

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CAS No.	Designation	Type	Limit value
1309-48-4	Magnesium oxide	Canada, Alberta: OEL 8 hour	10 mg/m <sup>3</sup>
		Canada, BC: OEL STEL	10 mg/m <sup>3</sup>
			respirable fraction; Smoke and Dusts
		Canada, BC: OEL TWA	10 mg/m <sup>3</sup> Smoke
		Canada, BC: OEL TWA	3 mg/m <sup>3</sup>
			respirable fraction; Smoke and Dusts
1305-78-8	Calcium oxide	Canada, Alberta: OEL 8 hour	2 mg/m <sup>3</sup>
		Canada, BC: OEL TWA	2 mg/m <sup>3</sup>
		Canada, Québec: VEMP	2 mg/m <sup>3</sup>
		USA: ACGIH: TWA	2 mg/m <sup>3</sup>
		USA: NIOSH: TWA	2 mg/m <sup>3</sup>
		USA: OSHA: TWA	5 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	Canada, Alberta: OEL 8 hour	0.025 mg/m <sup>3</sup>
		Canada, BC: OEL TWA	0.025 mg/m <sup>3</sup>
		Canada, Ontario: OEL TWA	0.1 mg/m <sup>3</sup> (respirable fraction)
		Canada, Québec: VEMP	0.1 mg/m <sup>3</sup> (respirable fraction)
		USA: ACGIH: TWA	0.025 mg/m <sup>3</sup> (respirable fraction)
		USA: NIOSH: TWA	0.05 mg/m <sup>3</sup> (respirable fraction)
		USA: OSHA: TWA	10 mg/m <sup>3</sup> / % SiO <sub>2</sub> + 2 (respirable Dust)
		USA: OSHA: TWA	250 mppcf/ % SiO <sub>2</sub> +5 fine dust
		USA: OSHA: TWA	30 mg/m <sup>3</sup> / % SiO <sub>2</sub> + 2 inhalable fraction

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
13775-53-6	Trisodium hexafluoroaluminate (cryolite)	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
7789-75-5	Calcium 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

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### 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 local exhaust ventilation is recommended.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

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

Skin protection For mechanical processing: Wear suitable protective clothing and shoes.  
For mechanical processing: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Respiratory protection: In case of dust formation or formation of aerosol:  
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:

For mechanical processing: 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.

## 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
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

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### 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.

Eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

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

# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



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### Symptoms

In case of inhalation: Inhalation of dust may cause irritation of the respiratory system.  
Irritation of nose, throat, lung  
In case of ingestion: Can damage your health.  
After contact with skin: Can be irritating because of mechanical abrasion.

## 12. Ecological information

### Ecotoxicity

Aquatic toxicity: 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

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### Air transport (IATA)

Proper shipping name: Not restricted

### Further information

No dangerous good in sense of these transport regulations.

## 15. Regulatory information

### National regulations - Canada

No data available

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### 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.
Aluminium 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
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
Polyethylene:	Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed
Graphite:	NIOSH Recommendations: Occupational Health Guideline: 0306
Lanthanum oxide:	TSCA: listed
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: listed NIOSH Recommendations: Occupational Health Guideline: 0553

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

Aluminium 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

## 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)  
Flammability: 0 (Minimal)  
Physical Hazard: 0 (Minimal)  
Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

Reason of change: Changes in section 1: emergency phone number  
Date of first version: 18/12/2015

### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

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.