

SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



Organic Bonded Abrasives, Type II

Material number 011

Revision date: 2/2/2018

Version: 6

Language: en-CA,US

Date of print: 29/3/2018

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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.

Street/POB-No.: 9201 W. Heather Ave.
Postal Code, city: Milwaukee, WI 53224,
USA

WWW: www.pferdusa.com

E-mail: sales@pferdusa.com

Telephone: 1-800-342-9015

Telefax: 262-255-2840

Dept. responsible for information: 1-800-342-9015

PFERD CANADA INC.

Street/POB-No.: 5570 McAdam Road
Postal Code, city: Mississauga, Ontario L4Z 1P1,
Canada

WWW: www.pferdusa.com

E-mail: sales@pferdcanada.ca

Telephone: (905) 501-1555

Telefax: (905) 501-1554

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: Eye Damage 1; 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 damage.
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.
Immediately call a POISON CENTER/doctor.
Store locked up.

Additional information

Dispose of contents/container to hazardous or special waste collection point.
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

Mechanical processing can produce particles and dust.
Inhalation of dust may cause irritation of the respiratory system.
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 ₂)	< 0.5 %	Carcinogenicity 1A.
CAS 12055-23-1	Hafnium dioxide	< 0.4 %	not applicable

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CAS No.	Designation	Content	Classification
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 residues 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. 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

Can be irritating because of mechanical abrasion. Causes serious eye damage. 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 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. Avoid exposure.

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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

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.
Obtain special instructions before use. The product is to be handled with extreme caution.

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 ³
		Canada, Québec: VEMP	10 mg/m ³ (inhalable fraction)
		USA: OSHA: TWA	15 mg/m ³ (inhalable fraction)
		USA: OSHA: TWA	5 mg/m ³ (respirable fraction)
409-21-2	Silicon carbide	Canada, Alberta: OEL 8 hour	0.1 fibers/cm ³ (fibers, inhalable fraction)
		Canada, Alberta: OEL 8 hour	10 mg/m ³ (Contains no fibers, inhalable fraction)
		Canada, Alberta: OEL 8 hour	3 mg/m ³ (Contains no fibers, respirable fraction)
		Canada, BC: OEL TWA	0.1 fibers/cm ³ (fibers, inhalable fraction)
		Canada, BC: OEL TWA	10 mg/m ³ (Contains no fibers, inhalable fraction)
		Canada, BC: OEL TWA	3 mg/m ³ (Contains no fibers, respirable fraction)
		Canada, Ontario: OEL TWA	0.1 fibers/cm ³ (fibers, inhalable fraction)
		Canada, Ontario: OEL TWA	10 mg/m ³ (Contains no fibers, inhalable fraction)
		Canada, Ontario: OEL TWA	3 mg/m ³ (Contains no fibers, respirable fraction)
		Canada, Québec: VEMP	10 mg/m ³ (Contains no fibers, inhalable fraction)
		USA: ACGIH: TWA	0.1 fibers/cm ³ (fibers, inhalable fraction)
		USA: ACGIH: TWA	10 mg/m ³ (inhalable fraction)
		USA: ACGIH: TWA	3 mg/m ³ (respirable fraction)
		USA: NIOSH: TWA	10 mg/m ³ (inhalable fraction)
USA: NIOSH: TWA	5 mg/m ³ (respirable fraction)		
USA: OSHA: TWA	15 mg/m ³ (inhalable fraction)		
USA: OSHA: TWA	5 mg/m ³ (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 ³	
		Canada, Alberta: OEL 8 hour	5 mg/m ³	
		Canada, BC: OEL STEL	10 mg/m ³	
		Canada, BC: OEL TWA	5 mg/m ³	
		Canada, Québec: VECD	10 mg/m ³	
			(Zirconium and compounds, calculated as Zr)	
		Canada, Québec: VEMP	5 mg/m ³	
			(Zirconium and compounds, calculated as Zr)	
		USA: ACGIH: STEL	10 mg/m ³ (calculated as Zr)	
		USA: ACGIH: TWA	5 mg/m ³ (calculated as Zr)	
		USA: NIOSH: STEL	10 mg/m ³ (calculated as Zr)	
USA: NIOSH: TWA	5 mg/m ³ (calculated as Zr)			
USA: OSHA: TWA	5 mg/m ³ (calculated as Zr)			
60304-36-1	Aluminum potassium fluoride	Canada, Alberta: OEL 8 hour	2.5 mg/m ³ (calculated as F)	
		Canada, BC: OEL TWA	2.5 mg/m ³ (calculated as F)	
		Canada, Québec: VEMP	2.5 mg/m ³ (calculated as F)	
		USA: ACGIH: TWA	2.5 mg/m ³	
			(Fluorides, calculated as F)	
		USA: NIOSH: TWA	2.5 mg/m ³ (calculated as F)	
		USA: OSHA: TWA	2.5 mg/m ³ (calculated as F)	
13775-53-6	Trisodium hexafluoroaluminate (cryolite)	Canada, Alberta: OEL 8 hour	2.5 mg/m ³ (calculated as F)	
		Canada, BC: OEL TWA	2.5 mg/m ³ (calculated as F)	
		Canada, Québec: VEMP	2.5 mg/m ³ (calculated as F)	
		USA: ACGIH: TWA	2.5 mg/m ³	
			(Fluorides, calculated as F)	
		USA: NIOSH: TWA	2.5 mg/m ³ (calculated as F)	
		USA: OSHA: TWA	2.5 mg/m ³ (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 ³
		Canada, Alberta: OEL 8 hour	Glass Fibres, Continuous filament 5 mg/m ³
		Canada, BC: OEL TWA	Glass Fibres, continuous filament, glass wool, inhalable fraction 1 fibers/cm ³
		Canada, BC: OEL TWA	Synthetic Vitreous Fibres - Continuous filament glass fibres 5 mg/m ³
		Canada, Ontario: OEL TWA	Synthetic Vitreous Fibres - Continuous filament glass fibres; inhalable fraction 1 fibers/cm ³
		Canada, Ontario: OEL TWA	Synthetic Vitreous Fibres, Continuous filament glass fibres 5 mg/m ³
		Canada, Québec: VEMP	Synthetic Vitreous Fibres (Man Made Mineral Fibres), Continuous filament glass fibres 10 mg/m ³
		USA: ACGIH: TWA	Fibre de verre en filament continu; Pt note 1 1 fibers/cm ³
		USA: ACGIH: TWA	Synthetic vitreous fibres, Continuous filament glass fibres 5 mg/m ³
		USA: NIOSH: TWA	Synthetic vitreous fibres, Continuous filament glass fibres; inhalable fraction 3 fibers/cm ³
		USA: NIOSH: TWA	Fibers less than or equal to 3,5 µm in diameter and greater than or equal to 10µm in length. 5 mg/m ³
			Fiber glas®, Fiberglass, Glass fibers, Glass wool, total dust
		471-34-1	Calcium carbonate
Canada, BC: OEL STEL	20 mg/m ³		
Canada, BC: OEL TWA	(Calcium carbonate incl. Limestone, Marble) 10 mg/m ³		
Canada, Québec: VEMP	(Calcium carbonate incl. Limestone, Marble) 10 mg/m ³ (inhalable fraction)		
USA: NIOSH: TWA	10 mg/m ³ (inhalable fraction)		
USA: NIOSH: TWA	5 mg/m ³ (respirable fraction)		
USA: OSHA: TWA	15 mg/m ³ (inhalable fraction)		
USA: OSHA: TWA	5 mg/m ³ (respirable fraction)		

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CAS No.	Designation	Type	Limit value
13463-67-7	Titanium dioxide	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada, BC: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA USA: OSHA: TWA	10 mg/m ³ 10 mg/m ³ 3 mg/m ³ respirable fraction 10 mg/m ³ (inhalable fraction) 10 mg/m ³ 15 mg/m ³
1309-37-1	Diiron trioxide	Canada, Alberta: OEL 8 hour Canada, BC: OEL STEL Canada, BC: OEL TWA Canada, BC: OEL TWA Canada, BC: OEL TWA Canada, BC: OEL TWA Canada, Québec: VEMP Canada, Québec: VEMP USA: ACGIH: TWA USA: OSHA: TWA USA: OSHA: TWA USA: OSHA: TWA	5 mg/m ³ (respirable fraction) 10 mg/m ³ Smoke; calculated as Fe 10 mg/m ³ (oxide, red) 3 mg/m ³ (oxide, red) respirable fraction 5 mg/m ³ (oxide dust) 5 mg/m ³ Smoke; calculated as Fe 10 mg/m ³ (red) 5 mg/m ³ 5 mg/m ³ (respirable fraction) 10 mg/m ³ (Iron oxide, fume; calculated as Fe) 15 mg/m ³ (inhalable fraction, red) 5 mg/m ³ (red, respirable fraction)
7789-75-5	Calcium fluoride	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (Fluorides, calculated as F) 2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (calculated as F)
7782-42-5	Graphite	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA USA: OSHA: TWA	2 mg/m ³ (respirable fraction) 2 mg/m ³ (respirable fraction) 2 mg/m ³ 2 mg/m ³ (respirable fraction) 2.5 mg/m ³ (respirable fraction) 15 mg/m ³ (inhalable fraction) 15 mppcf 5 mg/m ³ (respirable fraction)
1308-38-9	Chromium oxide	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	0.5 mg/m ³ 0.5 mg/m ³ 0.5 mg/m ³ 0.5 mg/m ³ (inhalable fraction) 0.5 mg/m ³ 0.5 mg/m ³
7631-86-9	Silicon dioxide	USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	6 mg/m ³ 20 mppcf 80 mg/m ³ 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 ³
		Canada, BC: OEL STEL	10 mg/m ³
		Canada, BC: OEL TWA	3 mg/m ³
		Canada, Québec: VEMP	10 mg/m ³
		USA: ACGIH: TWA	10 mg/m ³ (inhalable fraction)
1305-78-8	Calcium oxide	USA: OSHA: TWA	15 mg/m ³
		Canada, Alberta: OEL 8 hour	2 mg/m ³
		Canada, BC: OEL TWA	2 mg/m ³
		Canada, Québec: VEMP	2 mg/m ³
		USA: ACGIH: TWA	2 mg/m ³
14808-60-7	Quartz (SiO ₂)	USA: NIOSH: TWA	2 mg/m ³
		USA: OSHA: TWA	5 mg/m ³
		Canada, Alberta: OEL 8 hour	0.025 mg/m ³
		Canada, BC: OEL TWA	0.025 mg/m ³
		Canada, Ontario: OEL TWA	0.1 mg/m ³ (respirable fraction)
50-00-0	Formaldehyde	Canada, Québec: VEMP	0.1 mg/m ³ (respirable fraction)
		USA: ACGIH: TWA	0.025 mg/m ³ (respirable fraction)
		USA: NIOSH: TWA	0.05 mg/m ³ (respirable fraction)
		USA: OSHA: TWA	10 mg/m ³ / % SiO ₂ + 2 (respirable fraction)
		USA: OSHA: TWA	250 mppcf/ % SiO ₂ +5 (fine dust)
		USA: OSHA: TWA	30 mg/m ³ / % SiO ₂ + 2 (inhalable fraction)
		Canada, Alberta: OEL 8 hour	0.9 mg/m ³ ; 0.75 ppm
		Canada, Alberta: OEL Ceiling	1.3 mg/m ³ ; 1 ppm
		Canada, BC: OEL Ceiling	1 ppm
		Canada, BC: OEL TWA	0.3 ppm
Canada, Ontario: OEL Ceiling	1.5 ppm		
Canada, Ontario: OEL STEL	1 ppm		
Canada, Québec: Plafond	3 mg/m ³ ; 2 ppm		
NIOSH: Ceiling	0.1 ppm		
USA: ACGIH: STEL	0.3 ppm (DSEN,RSEN,A1)		
USA: ACGIH: TWA	0.1 ppm (DSEN,RSEN,A1)		
USA: NIOSH: TWA	0.016 ppm		
USA: OSHA: STEL	2 ppm		
USA: OSHA: TWA	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
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

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

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

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.

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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

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

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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 Damage 1 = Causes serious eye damage.

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): Specific Target Organ Toxicity (Repeated Exposure) 1 = Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: Lack of data.

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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 Diiron trioxide:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Information about Polyethylene:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Information about Silicon dioxide:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Information about Quartz (SiO₂):
IARC Rating: Group 1
OSHA Carcinogen: not listed
NTP Rating: listed
Information about Formaldehyde:
IARC Rating: Group 1
OSHA Carcinogen: listed
NTP Rating: listed

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: 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)

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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 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
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 ₂):	Carcinogen Status: IARC Rating: Group 1 OSHA Carcinogen: not listed NTP Rating: listed NIOSH Recommendations: Occupational Health Guideline: 0553

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Formaldehyde:

Carcinogen Status:

IARC Rating: Group 1

OSHA Carcinogen: 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.

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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 (SiO₂): California Proposition 65: cancer
Rhode Island HSL: listed
- Formaldehyde: California Proposition 65 code: C
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 - Ratings: 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

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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
		X

Reason of change:

Changes in section 2: labeling (EU: P-phrases 8. ATP)

Changes in section 3: Composition / Information on ingredients.

Changes in section 14: Transport information

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.