

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



Coated Abrasives

Product number 131

Version: 1.0
Replaces version: 0.0

Revision date: Aug/30/2024
Date of print: Sep/5/2024

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Language: en-US,CA

1. Product and company identification

Product identifier

Trade name: Coated Abrasives

This safety data sheet pertains to the following products:

CC Grind ROBUST
CC Grind VIEW
POLIFAN CURVE

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
Department 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
Department responsible for information:
1-866-245-1555

Emergency phone number

USA/Canada: 1-800-255-3924

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F (20 °C) and 101.3 kPa: solid
Color: varying colors
Odor: No data available
Classification: Eye Irritation - Category 2A. Carcinogenicity - Category 2.
Toxic to Reproduction (Lactation). Specific Target Organ Toxicity (Repeated Exposure) -
Category 1. Aquatic toxicity - chronic - Category 3.

Hazard symbols:



Signal word:

Danger

Hazard statements:

Causes serious eye irritation.
Suspected of causing 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 advice/attention.
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 WHMIS in Canada.

Hazards not otherwise classified

Processing, e.g. by cutting, sawing or grinding, can produce particles and dust.
Dust contact with the eyes can lead to mechanical irritation. Dust may irritate airways and cause bronchitis symptoms.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization:

Discs

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Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS -	Polyamide compound	< 90 %	not classified
CAS 65997-17-3	Glass fibers	< 45 %	not classified
CAS 1344-28-1	Aluminium oxide	< 40 %	not classified
CAS -	Synthetic resin, polymerized	< 40 %	not classified
CAS -	Cotton cloth	< 35 %	not classified
CAS -	Cotton-Polyester-cloth	< 35 %	not classified
CAS -	Adhesive, cured	< 30 %	not classified
CAS 1314-23-4	Zirconium dioxide	< 30 %	not classified
CAS 14075-53-7	Potassium tetrafluoroborate	< 25 %	not classified
CAS 13775-53-6	Trisodium hexafluoroaluminate (cryolite)	< 25 %	Acute Toxicity - inhalative - Category 4. Toxic to Reproduction (Lactation). Specific Target Organ Toxicity (Repeated Exposure) - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 60304-36-1	Aluminum potassium fluoride	< 15 %	Acute Toxicity - inhalative - Category 4. Eye Irritation - Category 2A. Toxic to Reproduction (Lactation). Specific Target Organ Toxicity (Repeated Exposure) - Category 1. Aquatic toxicity - chronic - Category 3.
CAS 471-34-1	Calcium carbonate	< 10 %	not classified
CAS 1332-58-7	Kaolin	< 5 %	not classified
CAS 13463-67-7	Titanium dioxide	< 5 %	Carcinogenicity - Category 2.
CAS 13983-17-0	Wollastonite	< 5 %	not classified
CAS 1020665-14-8	Siliceous Earth	< 5 %	not classified
CAS 1309-37-1	Diiron trioxide	< 5 %	not classified
CAS 1309-48-4	Magnesium oxide	< 1 %	not classified
CAS 50-00-0	Formaldehyde	< 0.1 %	Acute Toxicity - oral - Category 3. Acute Toxicity - dermal - Category 3. Acute Toxicity - inhalative - Category 3. Skin Corrosion - Category 1B. Sensitization - skin - Category 1. Germ cell mutagenicity - Category 2. Carcinogenicity - Category 1B.

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 residues with soap and water. In case of skin reactions, consult a physician.

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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. Subsequently 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/effects, 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:

Not applicable

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

Can be released in case of fire: Hydrogen fluoride, boron compounds, carbon monoxide and carbon dioxide (CO₂).

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 vapors or dust particles.

In case of heating: Development of gas/vapor possible.

Provide adequate ventilation. Wear appropriate protective equipment.

Avoid contact with dust. Take off contaminated clothing and wash it before reuse. 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

Advices on safe handling: Obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed. Avoid generation of dust. In case of heating: Development of gas/vapor possible. Do not inhale vapors or dust particles. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Avoid contact with dust. Work place should be equipped with a shower and an eye rinsing apparatus.

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Storage

Requirements for storerooms and containers:

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

Hints on joint storage:

Do not store together with oxidizing agents or acids.
Keep away from food, drink and animal feedingstuffs.

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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
65997-17-3	Glass fibers	Canada: OEL 8 hour	1 fibers/cm ³ (Glass Fibres, Continuous filament)
		Canada: OEL 8 hour	5 mg/m ³ (Glass Fibres, continuous filament, glass wool, inhalable fraction)
		Canada: OEL TWA	1 fibers/cm ³ (Synthetic vitreous fibres, Continuous filament glass fibres)
		Canada: OEL TWA	5 mg/m ³ (Synthetic Vitreous Fibres (Man Made Mineral Fibres), Continuous filament glass fibres)
		Canada: OEL TWA	5 mg/m ³ (Synthetic vitreous fibres, Continuous filament glass fibres, inhalable fraction)
		Canada: VEMP USA: ACGIH: TWA	1 fibers/cm ³ (continuous filament) 1 fibers/cm ³ (Synthetic vitreous fibres, Continuous filament glass fibres)
		USA: ACGIH: TWA	5 mg/m ³ (Synthetic vitreous fibres, Continuous filament glass fibres, inhalable fraction)
		USA: NIOSH: TWA USA: NIOSH: TWA	3 fibers/cm ³ 5 mg/m ³ (glass wool, fibreglass, glass fibers)
1344-28-1	Aluminium oxide	Canada: OEL 8 hour	10 mg/m ³
		Canada: VEMP	10 mg/m ³ (total dust)
		USA: OSHA: TWA	15 mg/m ³ (inhalable fraction)
		USA: OSHA: TWA	5 mg/m ³ (respirable fraction)
1314-23-4	Zirconium dioxide	Canada: OEL 15 min	10 mg/m ³
		Canada: OEL 8 hour	5 mg/m ³
		Canada: OEL STEL	10 mg/m ³
		Canada: OEL TWA	5 mg/m ³
		Canada: VECD	10 mg/m ³ (Zirconium and compounds, calculated as Zr)
		Canada: 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: IDLH: TWA	25 Zr/m ³
		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 (compounds)		

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CAS No.	Designation	Type	Limit value
14075-53-7	Potassium tetrafluoroborate	Canada: OEL 8 hour	2.5 mg/m ³ (calculated as F)
		Canada: OEL TWA	2.5 mg/m ³ (calculated as F)
		Canada: VEMP	2.5 mg/m ³ (calculated as F)
		USA: ACGIH: TWA	2.5 mg/m ³ (Fluorides, calculated as F)
		USA: IDLH: TWA	250 F/m ³
		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: OEL 8 hour	2.5 mg/m ³ (calculated as F)
		Canada: OEL TWA	2.5 mg/m ³ (calculated as F)
		Canada: VEMP	2.5 mg/m ³ (calculated as F)
		USA: ACGIH: TWA	2.5 mg/m ³ (Fluorides, calculated as F)
		USA: IDLH: TWA	250 F/m ³
		USA: NIOSH: TWA	2.5 mg/m ³ (calculated as F)
		USA: OSHA: TWA	2.5 mg/m ³ (calculated as F)
60304-36-1	Aluminum potassium fluoride	Canada: OEL 8 hour	2.5 mg/m ³ (calculated as F)
		Canada: OEL TWA	2.5 mg/m ³ (calculated as F)
		Canada: VEMP	2.5 mg/m ³ (calculated as F)
		USA: ACGIH: TWA	2.5 mg/m ³ (Fluorides, calculated as F)
		USA: IDLH: TWA	250 F/m ³
		USA: NIOSH: TWA	2.5 mg/m ³ (calculated as F)
		USA: OSHA: TWA	2.5 mg/m ³ (calculated as F)
471-34-1	Calcium carbonate	Canada: OEL 8 hour	10 mg/m ³
		Canada: VEMP	10 mg/m ³ (total dust)
		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)
		1332-58-7	Kaolin
Canada: OEL TWA	2 mg/m ³		
Canada: VEMP	2 mg/m ³		
USA: ACGIH: TWA	2 mg/m ³		
	respirable fraction (particulate matter containing no asbestos and <1% crystalline silica)		
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 (total dust)		
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: OEL 8 hour	10 mg/m ³		
		Canada: OEL TWA	10 mg/m ³ (inhalable fraction)		
		Canada: VEMP	10 mg/m ³ (total dust)		
		USA: ACGIH: TWA	0.2 mg/m ³ (nanoparticle, respirable fraction)		
		USA: ACGIH: TWA	2.5 mg/m ³ (Fine dust, respirable fraction)		
		USA: IDLH: TWA	5,000 mg/m ³		
13983-17-0	Wollastonite	Canada: OEL TWA	1 mg/m ³		
		Canada: VEMP	10 mg/m ³ (total dust)		
		Canada: VEMP	5 mg/m ³ (respirable fraction)		
1309-37-1	Diiron trioxide	Canada: OEL 8 hour	5 mg/m ³ (respirable fraction)		
		Canada: OEL STEL	10 mg/m ³ (Smoke, calculated as Fe)		
		Canada: OEL TWA	10 mg/m ³ (oxide, red, inhalable fraction)		
		Canada: OEL TWA	3 mg/m ³ (oxide, red, respirable fraction)		
		Canada: OEL TWA	5 mg/m ³ (oxide dust)		
		Canada: OEL TWA	5 mg/m ³ (Smoke, calculated as Fe)		
		Canada: VEMP	5 mg/m ³		
		USA: ACGIH: TWA	5 mg/m ³ (respirable fraction)		
		USA: IDLH: TWA	2,500 Fe/m ³ (dust and Smoke)		
		USA: OSHA: TWA	10 mg/m ³ (Smoke)		
1309-48-4	Magnesium oxide	Canada: OEL 8 hour	10 mg/m ³		
		Canada: OEL STEL	10 mg/m ³ (respirable fraction, Smoke and Dusts)		
		Canada: OEL TWA	10 mg/m ³ (Smoke, inhalable fraction)		
		Canada: OEL TWA	3 mg/m ³ (respirable fraction, Smoke and Dusts)		
		Canada: VEMP	10 mg/m ³ (inhalable fraction)		
		USA: ACGIH: TWA	10 mg/m ³ (inhalable fraction)		
		USA: IDLH: TWA	750 mg/m ³ (Smoke)		
		USA: OSHA: TWA	15 mg/m ³ (Total particles)		
		50-00-0	Formaldehyde	Canada: OEL 8 hour	0.9 mg/m ³ ; 0.75 ppm
				Canada: OEL Ceiling	1.3 mg/m ³ ; 1 ppm
Canada: OEL Ceiling	1.5 ppm				
Canada: OEL STEL	0.3 ppm				
Canada: OEL STEL	1 ppm				
Canada: OEL TWA	0.1 ppm				
Canada: Plafond	1.5 ppm				
USA: ACGIH: STEL	0.3 ppm				
USA: ACGIH: TWA	0.1 ppm				
USA: IDLH: TWA	20 ppm				
USA: NIOSH: Ceiling	0.1 ppm				
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
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 (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
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

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.
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.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

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:

Obtain special instructions before use. Do not inhale vapors or dust particles.
Avoid contact with skin and eyes.
When using do not eat, drink or smoke. Take off contaminated clothing and wash it before reuse.
Wash hands before breaks and after work.
Work place should be equipped with a shower and an eye rinsing apparatus.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Physical state at 68 °F (20 °C) and 101.3 kPa: solid
Color: varying colors

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Odor: No data available
Odor threshold: No data available

pH: Not applicable
Melting point/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point/flash point range: Not applicable
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: Refer to subsection "Possibility of hazardous reactions".
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: No hazardous decomposition products when regulations for storage and handling are observed.
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.
ATEmix (calculated): ATE > 2000 mg/kg.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 2000 mg/kg.

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 -
Category 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 - Category 2 = Suspected of causing 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) -
Category 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 (CAS 60304-36-1):
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) (CAS 13775-53-6):
LD50, Rat, oral: >5000 mg/kg
LC50, Rat, inhalative: 4.47 mg/L/4h
LD50, Rabbit, dermal: >2100 mg/kg
Chronic toxicity carcinogenic effect:
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 Diiron trioxide:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Information about Formaldehyde:
IARC Rating: Group 1
OSHA Carcinogen: listed
NTP Rating: listed

Symptoms

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
Information about Trisodium hexafluoroaluminate (cryolite) (CAS 13775-53-6):
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 Danio rerio (zebrafish): 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.

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13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Package

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

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:
not applicable

UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
Not restricted

Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:
not applicable

Packing group

ADR/RID, IMDG, IATA-DGR:
not applicable

Environmental hazards

Marine pollutant: no

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

No data available

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.

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15. Regulatory information

National regulations - U.S. Federal Regulations

Polyamide compound:	TSCA Inventory: listed; EPA flags XU
Glass fibers:	TSCA Inventory: listed; UVCB
Aluminium oxide:	TSCA Inventory: listed NIOSH Recommendations: Occupational Health Guideline: 0021
Zirconium dioxide:	TSCA Inventory: listed
Potassium tetrafluoroborate:	TSCA Inventory: listed
Trisodium hexafluoroaluminate (cryolite):	TSCA Inventory: listed
Aluminum potassium fluoride:	TSCA Inventory: listed
Calcium carbonate:	TSCA Inventory: listed
Kaolin:	TSCA Inventory: listed; UVCB; EPA flags XU NIOSH Recommendations: Occupational Health Guideline: 0364
Titanium dioxide:	TSCA Inventory: listed 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
Diiron trioxide:	TSCA Inventory: listed Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed NIOSH Recommendations: Occupational Health Guideline: 0344
Magnesium oxide:	TSCA Inventory: listed NIOSH Recommendations: Occupational Health Guideline: 0374

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Formaldehyde:

TSCA Inventory: listed

Carcinogen Status:

IARC Rating: Group 1

OSHA Carcinogen: listed

NTP Rating: listed

Clean Air Act:

CAA Accidental Release Prevention: Threshold 15000 lbs. / Basis for listing = b

CAA Hazardous Air Pollutants: yes

CAA SOCM Chemical: yes

Clean Water Act:

CWA 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
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
Formaldehyde:	California Proposition 65: cancer 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

National regulations - Canada

Polyamide compound:	DSL: listed
Aluminium oxide:	DSL: listed
Zirconium dioxide:	DSL: listed
Potassium tetrafluoroborate:	DSL: listed
Trisodium hexafluoroaluminate (cryolite):	DSL: listed
Aluminum potassium fluoride:	DSL: listed

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Calcium carbonate: DSL: listed
Kaolin: DSL: listed
Titanium dioxide: DSL: listed
Diiron trioxide: DSL: listed
Magnesium oxide: DSL: listed
Formaldehyde: DSL: 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
		X

Abbreviations and acronyms:

Acute Toxicity: Acute toxicity
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Carcinogenicity: Carcinogenicity
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EN: European Standard
EQ: Excepted quantities
Eye Irritation: Eye irritation
Germ cell mutagenicity: Mutagenicity
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LC50: Median lethal concentration
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Sensitization - skin: Skin sensitisation
Skin Corrosion: Skin corrosion
Skin Irritation: Skin irritation
STOT RE: Specific target organ toxicity - repeated exposure
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
Toxic to Reproduction (Lactation): Lactation
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit
WHMIS: Workplace Hazardous Materials Information System

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Department issuing data sheet

Contact person: see section 1: Department 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.