according to WHMIS 2015 and ANSI Z400.1-2010

#### **Coated Abrasives**

Material number 013

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# 1. Product and company identification

#### **Product identifier**

Trade name: Coated Abrasives

This safety data sheet pertains to the following products:

COMBICLICK® fibre discs

Fibre discs

COMBIDISC® Mini-POLIFAN® discs

COMBIDISC® abrasive discs COMBIDISC® mini fibre disc CC-GRIND® grinding Discs CC-GRIND® SOLID grinding Discs

POLIFAN® flap discs Overlap Slotted Discs

Flap drums

Flap wheels (mounted & unmounted )

POLIFLAP® abrasives flaps

POLISTAR
POLISTAR-TUBE
Abrasive belts
Abrasive sheets
Abrasive rolls

Abrasive spiral bands

**PSA Discs** 

POLIROLL cartridge rolls POLICAP® abrasive caps POLICAP® abrasive cones

#### 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, Postal Code, city: Mississauga, Ontario L4Z 1P1,

USA Canada

WWW: www.pferdusa.com
E-mail: sales@pferdusa.com
Telephone: 262-509-5614
Telefax: 262-255-2840
WWW: www.pferdusa.com
E-mail: sales@pferdusa.com
Telephone: (905) 501-1555
Telefax: (905) 501-1554

Dept. responsible for information: 1-800-342-9015 Dept. responsible for information: 1-866-245-1555

#### **Emergency phone number**

USA: 1-800-342-9015 (7:00 a.m.-5:00 p.m. Central Time)

Canada: 1-866-245-1555 (8:00 a.m. - 4:30 p.m. eastern standard time)

### 2. Hazards identification

#### **Emergency overview**

Odor:

Appearance: Form: solid

Color: varying colors No data available

Classification: Article not subject to hazard labeling or classification.

according to WHMIS 2015 and ANSI Z400.1-2010

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### **Regulatory status**

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

#### Hazards not otherwise classified

Processing, e.g. by cutting, sawing or grinding, can produce particles and dust. Harmful if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure.

May cause harm to breast-fed children. Toxic to aquatic life with long lasting effects. see section 11: Toxicological information

# 3. Composition / Information on ingredients

Chemical characterisation: Discs, wheels, belts, rolls etc.

Components in synthetic resin, completely embedded.

according to WHMIS 2015 and ANSI Z400.1-2010

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#### Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 1344-28-1	Aluminium oxide	< 70 %	not applicable
CAS -	Vulcanized fiber	< 70 %	not applicable
CAS 409-21-2	Silicon carbide	< 60 %	not applicable
CAS -	Cotton cloth	< 60 %	not applicable
CAS -	Polyester cloth	< 55 %	not applicable
CAS -	paper	< 50 %	not applicable
CAS 65997-17-3	Fibre glass weaves	< 45 %	not applicable
CAS -	synthetic resin, polymerized	< 40 %	not applicable
CAS -	Cotton-Polyester-cloth	< 40 %	not applicable
CAS 1314-23-4	Zirconium dioxide	< 30 %	not applicable
CAS -	Adhesive, cured	< 30 %	not applicable
CAS 471-34-1	Calcium carbonate	< 25 %	not applicable
CAS 60304-36-1	Aluminum potassium fluoride	< 25 %	Acute Toxicity 4 (inhalative). Eye Irritation 2A. Toxic to Reproduction (Lactation). Specific Target Organ Toxicity (Repeated Exposure) 1. Aquatic toxicity - chronic 3.
CAS 14075-53-7	Potassium tetrafluoroborate	< 20 %	not applicable
CAS 13775-53-6	Trisodium hexafluoroaluminate (cryolite)	< 20 %	Acute Toxicity 4 (inhalative). Toxic to Reproduction (Lactation). Specific Target Organ Toxicity (Repeated Exposure) 1. Aquatic toxicity - chronic 2.
CAS -	Velcro fabric	< 20 %	not applicable
CAS 25038-36-2	EPDM	< 15 %	not applicable
CAS 1332-58-7	Kaolin	< 15 %	not applicable
CAS -	Rubber, vulcanized	< 10 %	not applicable
CAS 13463-67-7	Titanium dioxide	< 5 %	Carcinogenicity 2.
CAS 1309-37-1	Diiron trioxide	< 5 %	not applicable
CAS -	Adhesive Tape	< 5 %	not applicable
CAS 1345-25-1	Iron(II) oxide	< 1 %	not applicable
CAS 7631-86-9	Silicon dioxide	< 1 %	not applicable
CAS 1309-48-4	Magnesium 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 (SiO2)	< 0.5 %	Carcinogenicity 1A.
CAS 12055-23-1	Hafnium dioxide	< 0.4 %	not applicable

Additional information: The ingredients are embedded in the product.

# 4. First aid measures

In case of inhalation: Fibers/dusts: Provide fresh air. If you feel unwell, seek medical advice.

Following skin contact: Fibers/dusts: Remove residues with soap and water. In case of skin reactions, consult a

physician.

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After eye contact: Fibers/dusts: 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: Fibers/dusts: Rinse mouth with water. Give water to drink in small sips. If you feel unwell,

seek medical advice.

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

Fibers/dusts: Harmful if inhaled. Causes skin irritation. May cause an allergic skin

reaction. Causes serious eye irritation.

# 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

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: For mechanical processing: Avoid generation of dust. Do not inhale substance.

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

Provide adequate ventilation. Wear appropriate protective equipment. Avoid contact with the substance. Keep unprotected people away.

Environmental precautions: Do not allow to penetrate into soil, waterbodies or drains.

In case of release, notify competent authorities.

Methods for clean-up: Take up mechanically, placing in appropriate containers for disposal.

# 7. Handling and storage

#### Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid generation of dust. In

case of heating: Development of gas/vapor possibel. 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.

Hints on joint storage: Do not store together with oxidizing agents or acids.

Do not store together with food.

according to WHMIS 2015 and ANSI Z400.1-2010

# **Coated Abrasives**

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# 8. Exposure controls / personal protection

# **Exposure guidelines**

Occupational exposure limit values:

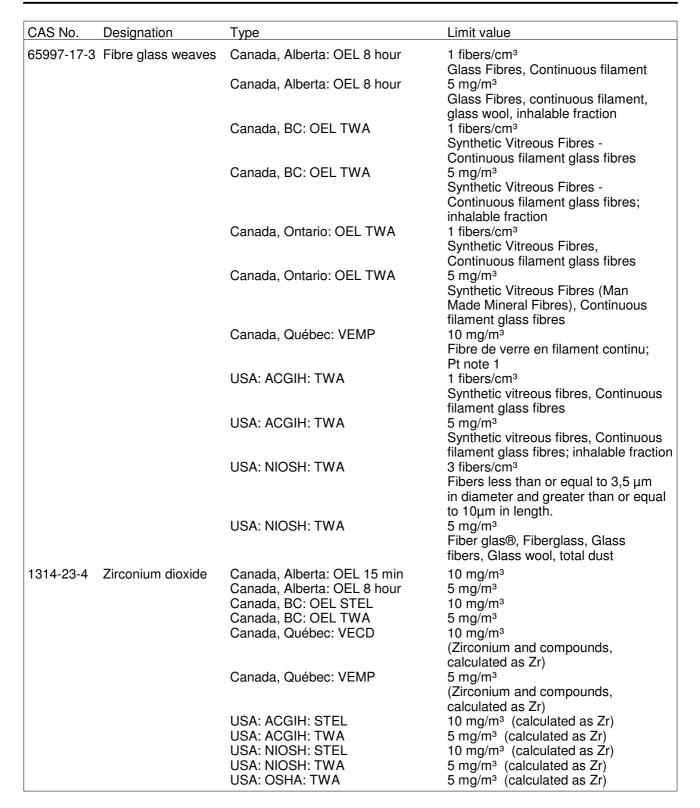
CAS No.	Designation	Туре	Limit value
1344-28-1	Aluminium oxide	Canada, Alberta: OEL 8 hour Canada, Québec: VEMP USA: OSHA: TWA USA: OSHA: TWA	10 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> (inhalable fraction) 15 mg/m <sup>3</sup> inhalable fraction 5 mg/m <sup>3</sup> (respirable fraction)
409-21-2	Silicon 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/m³ (non-fibrous; respirable fraction)
		Canada, BC: OEL TWA	0.1 fibers/cm³ (fibrous, including whiskers)
		Canada, BC: OEL TWA	10 mg/m <sup>3</sup> (non-fibrous; inhalable fraction)
		Canada, BC: OEL TWA	3 mg/m³ (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/m³ (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/m³ (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 USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	10 mg/m³ inhalable fraction 5 mg/m³ (respirable fraction) 15 mg/m³ inhalable fraction 5 mg/m³ (respirable fraction)

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CAS No.	Designation	Туре	Limit value
471-34-1	Calcium carbonate	Canada, Alberta: OEL 8 hour Canada, BC: OEL STEL	10 mg/m <sup>3</sup> 20 mg/m <sup>3</sup> (Calcium carbonate incl. Limestone, Marble)
		Canada, BC: OEL TWA	10 mg/m³ (Calcium carbonate incl. Limestone, Marble)
		Canada, Québec: VEMP USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	10 mg/m³ (inhalable fraction) 10 mg/m³ (inhalable fraction) 5 mg/m³ (respirable fraction) 15 mg/m³ (inhalable fraction) 5 mg/m³ (respirable fraction)
60304-36-1	Aluminum potassium fluoride	Canada, Alberta: OEL 8 hour	2.5 mg/m³ (calculated as F)
		Canada, BC: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA	2.5 mg/m³ (calculated as F) 2.5 mg/m³ (calculated as F) 2.5 mg/m³ (Fluorides, calculated as F)
		USA: NIOSH: TWA USA: OSHA: TWA	2.5 mg/m³ (calculated as F) 2.5 mg/m³ (calculated as F)
14075-53-7	Potassium tetrafluoroborate	Canada, Alberta: OEL 8 hour	2.5 mg/m³ (calculated as F)
		Canada, BC: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA	2.5 mg/m³ (calculated as F) 2.5 mg/m³ (calculated as F) 2.5 mg/m³ (Fluorides, calculated as F)
		USA: NIOSH: TWA USA: OSHA: TWA	2.5 mg/m³ (calculated as F) 2.5 mg/m³ (calculated as F)
13775-53-6	Trisodium hexafluoroaluminate (cryolite)	Canada, Alberta: OEL 8 hour	2.5 mg/m³ (calculated as F)
	, ,	Canada, BC: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA	2.5 mg/m³ (calculated as F) 2.5 mg/m³ (calculated as F) 2.5 mg/m³ (Fluorides, calculated as F)
		USA: NIOSH: TWA USA: OSHA: TWA	2.5 mg/m³ (calculated as F) 2.5 mg/m³ (calculated as F)
1332-58-7	Kaolin	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA	2 mg/m³ 2 mg/m³ 5 mg/m³ 2 mg/m³ respirable fraction (particulate matter containing no asbestos and <1% crystalline silica)
		USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	10 mg/m³ inhalable fraction 5 mg/m³ (respirable fraction) 15 mg/m³ inhalable fraction 5 mg/m³ (respirable fraction)
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 <sup>3</sup> 10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup> respirable fraction 10 mg/m <sup>3</sup> (inhalable fraction) 10 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>

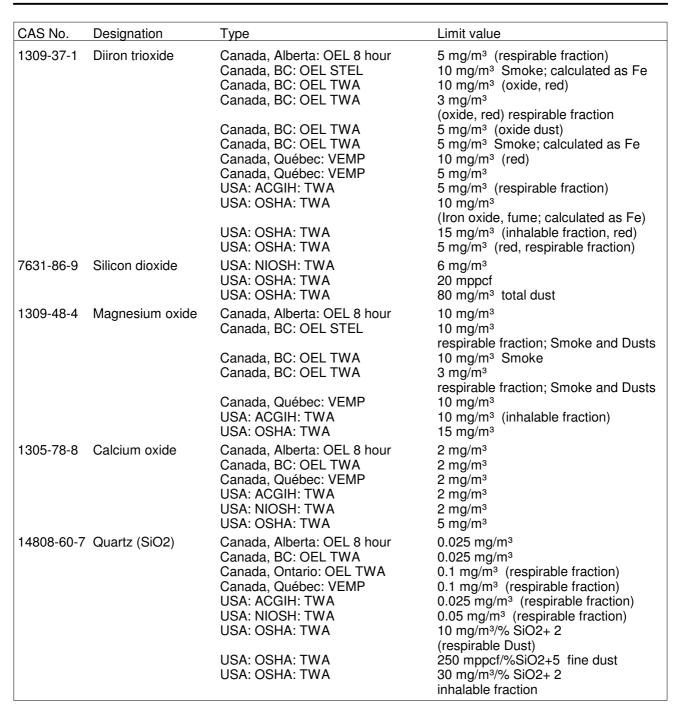
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#### **Engineering controls**

In the case of the formation of dust: 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 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.

according to WHMIS 2015 and ANSI Z400.1-2010

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For mechanical processing: Protective gloves according to OSHA Standard - 29 CFR:

1910.138.

Respiratory protection: In case of dust formation:

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

No data available

Odor: No data available
Odor threshold: No data available

The data available

pH value:

Melting point/freezing point:
Initial boiling point and boiling range:
Flash point/flash point range:
Evaporation rate:

No data available
No data available
No data available
No data available

Flammability: No data available No data available Explosion limits: No data available Vapor pressure: No data available Vapor density: No data available Density: Solubility: No data available No data available Partition coefficient: n-octanol/water: No data available Auto-ignition temperature:

Additional information: No data available

# 10. Stability and reactivity

Reactivity: no data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

Thermal decomposition:

No hazardous reaction when handled and stored according to provisions.

Conditions to avoid: No data available

Incompatible materials: Oxidizing agents, acids.

Hazardous decomposition products:

Can be released in case of fire: Hydrogen fluoride, boron compounds, carbon monoxide

and carbon dioxide (CO2).

Thermal decomposition: No data available

according to WHMIS 2015 and ANSI Z400.1-2010

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# 11. Toxicological information

#### Toxicological tests

Toxicological effects: 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 Chronic toxicity carcinogenic effect: 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 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

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with Qualisys SUMDAT

according to WHMIS 2015 and ANSI Z400.1-2010

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# 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:

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

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

### 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

Date of first version: 17/12/2015 **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.

