

SAFETY DATA SHEET

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



Organic Bonded Abrasives, Type 1

Product number 010

Revision date: Feb/2/2018
Version: 5

Language: en-US,CA

Date of print: Oct/8/2019
Page: 1 of 12

1. Product and company identification

Product identifier

Trade name: Organic Bonded Abrasives, Type 1
This safety data sheet pertains to the following products:
POLIFLEX finishing points, PUR bond
POLIFLEX finishing points, LR bond
POLIFLEX finishing points, TX bond
POLIFLEX Blocks, PUR bond
POLIFLEX Discs, PUR bond
COMBIDISC TX Disc
Textile Wheels

Relevant identified uses of the substance or mixture and uses advised against

General use: Fine grinding and finishing 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: Form: solid
Color: varying colors
Odor: No data available
Classification: Carcinogenicity - Category 1A;

Hazard symbols:



Signal word: **Danger**
Hazard statements: May cause cancer by inhalation.

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Precautionary statements:

Obtain special instructions before use.
Wear protective gloves/protective clothing/eye protection.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point.

Additional information

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

Mechanical processing can produce particles and dust.
Inhalation of dust may cause irritation of the respiratory system.
The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.
May cause sensitisation especially in sensitive humans.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Fine grinding points and wheels, blocks and discs etc.

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 1344-28-1	Aluminium oxide	< 90 %	not classified
CAS 409-21-2	Silicon carbide	< 90 %	not classified
CAS -	Rubber, vulcanized	< 50 %	not classified
CAS -	Synthetic resin, polymerized	< 50 %	not classified
CAS 65997-17-3	Glass fibre (weaves and/or cut)	< 23 %	not classified
CAS -	Cotton fibre	< 20 %	not classified
CAS -	Sisal fibres (natural cellulose)	< 15 %	not classified
CAS 7631-86-9	Silicon dioxide	< 15 %	not classified
CAS 7782-42-5	Graphite	< 1 %	not classified
CAS 1333-86-4	Carbon black	< 0.5 %	not classified
CAS 14808-60-7	Quartz (SiO ₂)	< 0.4 %	Carcinogenicity - Category 1A.

Hazardous impurities: The components listed above do not represent/include the chemical composition of the Hub.

Additional information: The ingredients are embedded in the product.
The components listed above do not represent/include the chemical composition of the Hub.

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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. If you feel unwell, seek medical advice.

Most important symptoms/effects, acute and delayed

Can cause skin, eye and respiratory tract 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

At temperatures above 482 °F (250 °C) hazardous decomposition products may be generated.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting 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.

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

Additional information: In the case of the formation of dust: The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

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

Storage

Requirements for storerooms and containers:

Store in a dry place. Protect from moisture contamination.

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, 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, 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, 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)		

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CAS No.	Designation	Type	Limit value
65997-17-3	Glass fibre (weaves and/or cut)	Canada, Alberta: OEL 8 hour	1 fibers/cm ³ (Glass Fibres, Continuous filament)
		Canada, Alberta: OEL 8 hour	5 mg/m ³ (Glass Fibres, continuous filament, glass wool, inhalable fraction)
		Canada, BC: OEL TWA	1 fibers/cm ³ (Synthetic vitreous fibres, Continuous filament glass fibres)
		Canada, BC: OEL TWA	5 mg/m ³ (Synthetic vitreous fibres, Continuous filament glass fibres, inhalable fraction)
		Canada, Ontario: OEL TWA	1 fibers/cm ³ (Synthetic vitreous fibres, Continuous filament glass fibres)
		Canada, Ontario: OEL TWA	5 mg/m ³ (Synthetic Vitreous Fibres (Man Made Mineral Fibres), Continuous filament glass fibres)
		Canada, Québec: VEMP	10 mg/m ³ Fibre de verre en filament continu; Pt note 1
		USA: ACGIH: TWA	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	3 fibers/cm ³ 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 ³ (Fiber glas®, Fiberglass, Glass fibers, Glass wool, total dust)	
7631-86-9	Silicon dioxide	USA: NIOSH: TWA	6 mg/m ³
		USA: OSHA: TWA	20 mppcf
		USA: OSHA: TWA	80 mg/m ³ (total dust)
7782-42-5	Graphite	Canada, Alberta: OEL 8 hour	2 mg/m ³ (respirable fraction)
		Canada, BC: OEL TWA	2 mg/m ³ (respirable fraction)
		Canada, Québec: VEMP	2 mg/m ³
		USA: ACGIH: TWA	2 mg/m ³ (respirable fraction)
		USA: NIOSH: TWA	2.5 mg/m ³ (respirable fraction)
		USA: OSHA: TWA	15 mg/m ³ (inhalable fraction)
		USA: OSHA: TWA	15 mppcf
		USA: OSHA: TWA	5 mg/m ³ (respirable fraction)

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CAS No.	Designation	Type	Limit value
1333-86-4	Carbon black	Canada, Alberta: OEL 8 hour	3.5 mg/m ³
		Canada, BC: OEL TWA	3 mg/m ³
		Canada, Québec: VEMP	3.5 mg/m ³
		USA: ACGIH: TWA	3 mg/m ³ (inhalable fraction)
		USA: NIOSH: TWA	0.1 mg PAHs/m ³ (Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs))
		USA: NIOSH: TWA	3.5 mg/m ³
		USA: OSHA: TWA	3.5 mg/m ³
14808-60-7	Quartz (SiO ₂)	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)
		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)

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.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Use appropriate 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:

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): Based on available data, the classification criteria are not met.
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.
Skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Carcinogenicity - Category 1A = May cause cancer by inhalation.
Reproductive toxicity: Based on available data, the classification criteria are not met.
Effects on or via lactation: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Chronic toxicity carcinogenic effect:
Information about Quartz (SiO₂):
IARC Rating: Group 1
OSHA Carcinogen: not listed
NTP Rating: listed
Information about Carbon black:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: not listed
Information about Silicon dioxide:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Symptoms

In case of inhalation: Inhalation of dust may cause irritation of the respiratory system.
Irritation of nose, throat, lung

12. Ecological information

Ecotoxicity

Further details: No data available

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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.

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15. Regulatory information

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
Silicon dioxide:	Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed NIOSH Recommendations: Occupational Health Guideline: 0552
Graphite:	NIOSH Recommendations: Occupational Health Guideline: 0306
Carbon black:	Carcinogen Status: IARC Rating: Group 2B OSHA Carcinogen: not listed NTP Rating: not listed NIOSH Recommendations: Occupational Health Guideline: 0102
Quartz (SiO ₂):	Carcinogen Status: IARC Rating: Group 1 OSHA Carcinogen: not listed NTP Rating: listed NIOSH Recommendations: Occupational Health Guideline: 0553

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
Carbon black:	California Proposition 65: cancer
Quartz (SiO ₂):	California Proposition 65: cancer

National regulations - Canada

No data available

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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 1: emergency phone number

Date of first version: Dec/18/2015

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.