

# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



## Organic Bonded Abrasives, Type 1

Product number 010

Revision date: 14/12/2016  
Version: 3

Language: en-CA,US

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

#### Product identifier

Trade name: Organic Bonded Abrasives, Type 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.	PFERD CANADA INC.
	Street/POB-No.: 9201 W. Heather Ave.	Street/POB-No.: 5570 McAdam Road
	Postal Code, city: Milwaukee, WI 53224, USA	Postal Code, city: Mississauga, Ontario L4Z 1P1, Canada
	WWW: <a href="http://www.pferdusa.com">www.pferdusa.com</a>	WWW: <a href="http://www.pferdusa.com">www.pferdusa.com</a>
	E-mail: <a href="mailto:sales@pferdusa.com">sales@pferdusa.com</a>	E-mail: <a href="mailto:sales@pferdcanada.ca">sales@pferdcanada.ca</a>
	Telephone: 262-509-5614	Telephone: (905) 501-1555
	Telefax: 262-255-2840	Telefax: (905) 501-1554
	Dept. responsible for information: 1-800-342-9015	Dept. responsible for information: 1-866-245-1555

#### Emergency phone number

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

### 2. Hazards identification

#### Emergency overview

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

#### Regulatory status

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

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### Hazards not otherwise classified

Mechanical processing can produce particles and dust.  
Inhalation of dust may cause irritation of the respiratory system.  
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 characterisation: Fine grinding points and wheels, blocks and discs etc.

Relevant ingredients:

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

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.  
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: Can cause skin, eye and respiratory tract irritation.

### Information to physician

Treat symptomatically.

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### 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.

### 7. Handling and storage

#### Handling

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

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

Do not inhale substance. Wear appropriate protective equipment. Avoid contact with the substance.

#### Storage

Requirements for storerooms and containers:

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

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CAS No.	Designation	Type	Limit value
65997-17-3	Glass fibre (weaves and/or cut)	Canada, Alberta: OEL 8 hour	1 fibers/cm <sup>3</sup> Glass Fibres, Continuous filament
		Canada, Alberta: OEL 8 hour	5 mg/m <sup>3</sup> Glass Fibres, continuous filament, glass wool, inhalable fraction
		Canada, BC: OEL TWA	1 fibers/cm <sup>3</sup> Synthetic Vitreous Fibres - Continuous filament glass fibres
		Canada, BC: OEL TWA	5 mg/m <sup>3</sup> Synthetic Vitreous Fibres - Continuous filament glass fibres; inhalable fraction
		Canada, Ontario: OEL TWA	1 fibers/cm <sup>3</sup> Synthetic Vitreous Fibres, Continuous filament glass fibres
		Canada, Ontario: OEL TWA	5 mg/m <sup>3</sup> Synthetic Vitreous Fibres (Man Made Mineral Fibres), Continuous filament glass fibres
		Canada, Québec: VEMP	10 mg/m <sup>3</sup> Fibre de verre en filament continu; Pt note 1
		USA: ACGIH: TWA	1 fibers/cm <sup>3</sup> Synthetic vitreous fibres, Continuous filament glass fibres
		USA: ACGIH: TWA	5 mg/m <sup>3</sup> Synthetic vitreous fibres, Continuous filament glass fibres; inhalable fraction
		USA: NIOSH: TWA	3 fibers/cm <sup>3</sup> Fibers less than or equal to 3,5 µm in diameter and greater than or equal to 10µm in length.
7631-86-9	Silicon dioxide	USA: NIOSH: TWA	5 mg/m <sup>3</sup> Fiber glas®, Fiberglass, Glass fibers, Glass wool, total dust
		USA: OSHA: TWA	6 mg/m <sup>3</sup>
		USA: OSHA: TWA	20 mppcf 80 mg/m <sup>3</sup> total dust
7782-42-5	Graphite	Canada, Alberta: OEL 8 hour	2 mg/m <sup>3</sup> (respirable fraction)
		Canada, BC: OEL TWA	2 mg/m <sup>3</sup> (respirable fraction)
		Canada, Québec: VEMP	2 mg/m <sup>3</sup>
		USA: ACGIH: TWA	2 mg/m <sup>3</sup> (respirable fraction)
		USA: NIOSH: TWA	2.5 mg/m <sup>3</sup> (respirable fraction)
		USA: OSHA: TWA	15 mg/m <sup>3</sup> (inhalable fraction)
		USA: OSHA: TWA	15 mppcf 5 mg/m <sup>3</sup> (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 <sup>3</sup>	
		Canada, BC: OEL TWA	3 mg/m <sup>3</sup>	
		Canada, Québec: VEMP	3.5 mg/m <sup>3</sup>	
		USA: ACGIH: TWA	3 mg/m <sup>3</sup> (inhalable fraction)	
		USA: NIOSH: TWA	0.1 mg PAHs/m <sup>3</sup>	
			Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)	
		USA: NIOSH: TWA	3.5 mg/m <sup>3</sup>	
14808-60-7	Quartz (SiO <sub>2</sub> )	USA: OSHA: TWA	3.5 mg/m <sup>3</sup>	
		Canada, Alberta: OEL 8 hour	0.025 mg/m <sup>3</sup>	
		Canada, BC: OEL TWA	0.025 mg/m <sup>3</sup>	
		Canada, Ontario: OEL TWA	0.1 mg/m <sup>3</sup> (respirable fraction)	
		Canada, Québec: VEMP	0.1 mg/m <sup>3</sup> (respirable fraction)	
		USA: ACGIH: TWA	0.025 mg/m <sup>3</sup> (respirable fraction)	
		USA: NIOSH: TWA	0.05 mg/m <sup>3</sup> (respirable fraction)	
		USA: OSHA: TWA	10 mg/m <sup>3</sup> /% SiO <sub>2</sub> + 2 (respirable Dust)	
		USA: OSHA: TWA	250 mppcf/%SiO <sub>2</sub> +5 fine dust	
		USA: OSHA: TWA	30 mg/m <sup>3</sup> /% SiO <sub>2</sub> + 2 inhalable fraction	

### 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.

For mechanical processing: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

**Respiratory protection:** In case of dust formation or formation of aerosol:  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**General hygiene considerations:**

For mechanical processing: Do not inhale substance. Avoid contact with skin and eyes.

When using do not eat, drink or smoke. Change contaminated clothing.

Wash hands before breaks and after work.

Work place should be equipped with a shower and an eye rinsing apparatus.

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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: 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: Chronic toxicity carcinogenic effect:  
Information about Quartz (SiO<sub>2</sub>):  
IARC Rating: Group 1  
OSHA Carcinogen: not listed  
NTP Rating: not 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

### Mobility in soil

No data available

### Persistence and degradability

Further details: No data available

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### 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
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 <sub>2</sub> ):	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 Rhode Island HSL: listed
Quartz (SiO <sub>2</sub> ):	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)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

Reason of change: Changes in section 1: emergency phone number

Date of first version: 18/12/2015

#### Department issuing data sheet

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

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products.