

SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



Organic Bonded Abrasives, Type 1

Material number 010

Revision date: 18/12/2015
Version: 1

Language: en-CA,US

Date of print: 22/4/2016
Page: 1 of 9

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: | www.pferdusa.com | WWW: www.pferdusa.com |
| E-mail: | sales@pferdusa.com | E-mail: sales@pferdusa.com |
| 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: 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

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.

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

SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



Organic Bonded Abrasives, Type 1

Material number 010

Revision date: 18/12/2015
Version: 1

Language: en-CA,US

Date of print: 22/4/2016
Page: 2 of 9

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 ₂) | < 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.

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.

SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



Organic Bonded Abrasives, Type 1

Material number 010

Revision date: 18/12/2015
Version: 1

Language: en-CA,US

Date of print: 22/4/2016
Page: 3 of 9

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.

SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



Organic Bonded Abrasives, Type 1

Material number 010

Revision date: 18/12/2015
Version: 1

Language: en-CA,US

Date of print: 22/4/2016
Page: 4 of 9

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

SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



Organic Bonded Abrasives, Type 1

Material number 010

Revision date: 18/12/2015
Version: 1

Language: en-CA,US

Date of print: 22/4/2016
Page: 5 of 9

| 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 USA: OSHA: TWA | 20 mppcf 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 USA: OSHA: TWA | 15 mppcf 5 mg/m ³ (respirable fraction) |

SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



Organic Bonded Abrasives, Type 1

Material number 010

Revision date: 18/12/2015
Version: 1

Language: en-CA,US

Date of print: 22/4/2016
Page: 6 of 9

| 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 |
| 14808-60-7 | Quartz (SiO ₂) | USA: OSHA: TWA | 3.5 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) | |
| | | 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 Dust) | |
| | | USA: OSHA: TWA | 250 mppcf/%SiO ₂ +5 fine dust | |
| | | USA: OSHA: TWA | 30 mg/m ³ % SiO ₂ + 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. If not available, use respiratory protection.

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.

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

SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



Organic Bonded Abrasives, Type 1

Material number 010

Revision date: 18/12/2015
Version: 1

Language: en-CA,US

Date of print: 22/4/2016
Page: 7 of 9

| | |
|--|-------------------|
| 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 |

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. |

SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



Organic Bonded Abrasives, Type 1

Material number 010

Revision date: 18/12/2015
Version: 1

Language: en-CA,US

Date of print: 22/4/2016
Page: 8 of 9

Other information: Chronic toxicity carcinogenic effect:
Information about Quartz (SiO₂):
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

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

SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



Organic Bonded Abrasives, Type 1

Material number 010

Revision date: 18/12/2015
Version: 1

Language: en-CA,US

Date of print: 22/4/2016
Page: 9 of 9

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

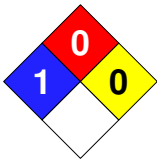
No data available

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

| | |
|-----------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| | X |

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.