

# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010



## Power Wire Brushes - Stainless Steel

Material number 021

Revision date: 15/1/2016  
Version: 1

Language: en-CA,US

Date of print: 22/4/2016  
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### 1. Product and company identification

#### Product identifier

Trade name: Power Wire Brushes - Stainless Steel

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

General use: Material removal and/or surface finishing.  
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](http://www.pferdusa.com)

E-mail: [sales@pferdusa.com](mailto:sales@pferdusa.com)

Telephone: 262-509-5614

Telefax: 262-255-2840

Dept. 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](http://www.pferdusa.com)

E-mail: [sales@pferdusa.com](mailto:sales@pferdusa.com)

Telephone: (905) 501-1555

Telefax: (905) 501-1554

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: gray-black

Odor: odorless

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. Dust contact with the eyes can lead to mechanical irritation.

In the case of the formation of dust: Harmful by inhalation and if swallowed.

May cause sensitisation especially in sensitive humans.

see section 11: Toxicological information

### 3. Composition / Information on ingredients

Chemical characterisation: The components listed below represent the chemical composition of the wire material:

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Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 7439-89-6	Iron	< 90 %	not applicable
CAS 7440-02-0	Nickel	< 35 %	Sensitization - skin 1. Carcinogenicity 2. Specific Target Organ Toxicity (Repeated Exposure) 1.
CAS 7440-47-3	Chromium	< 30 %	not applicable
CAS 7439-96-5	Manganese	< 15 %	not applicable
CAS 7440-21-3	Silicon	< 6 %	not applicable
CAS 7440-50-8	Copper	< 5 %	not applicable
CAS 7439-98-7	Molybdenum	< 4 %	not applicable
CAS 7429-90-5	Aluminium	= < 2 %	not applicable
CAS 7440-44-0	Carbon	< 1.2 %	not applicable
CAS 7440-62-2	Vanadium	< 0.5 %	not applicable
CAS 7727-37-9	Nitrogen	< 0.11 %	Compressed Gas.
CAS 7723-14-0	phosphorus	< 0.05 %	not applicable
CAS 7704-34-9	Sulfur	< 0.04 %	Skin Irritation 2.

Additional information: The specific identity and/or exact percentage has been withheld as a trade secret.

### 4. First aid measures

In case of inhalation:	In the case of the formation of dust: Provide fresh air. If you feel unwell, seek medical advice.
Following skin contact:	In the case of the formation of dust: Remove residues with soap and water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.
After eye contact:	In the case of the formation of dust: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of eye irritation consult an ophthalmologist.
After swallowing:	In the case of the formation of dust: Rinse mouth with water. Seek medical attention.

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

Inhalation of dust may cause irritation of the respiratory system. Dust contact with the eyes can lead to mechanical irritation.

In the case of the formation of dust: Harmful by inhalation and if swallowed. May cause sensitisation especially in sensitive humans.

### Information to physician

Treat symptomatically.

### 5. Fire fighting measures

Flash point/flash point range:

not combustible

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

On heating or in case of fire toxic gases may form.

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Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus. Wear suitable 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. 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. Do not inhale substance. Wear appropriate protective equipment. When using do not eat, drink or smoke. Wash hands before breaks and after work.

#### Storage

Requirements for storerooms and containers:

Keep container tightly closed and dry.

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### 8. Exposure controls / personal protection

#### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7439-89-6	Iron	USA: ACGIH: TWA	10 mg/m <sup>3</sup> smoke, dust
		USA: OSHA: TWA	10 mg/m <sup>3</sup> smoke
7440-02-0	Nickel	Canada, Alberta: OEL 8 hour	1.5 mg/m <sup>3</sup> metal
		Canada, BC: OEL TWA	0.05 mg/m <sup>3</sup>
		Canada, Ontario: OEL TWA	1 mg/m <sup>3</sup> inhalable fraction (Metal)
		Canada, Québec: VEMP	1 mg/m <sup>3</sup> (Métal)
		USA: ACGIH: TWA	0.1 mg/m <sup>3</sup> (compounds, soluble; inhalable fraction)
		USA: ACGIH: TWA	0.2 mg/m <sup>3</sup> (compounds, insoluble; inhalable fraction)
		USA: ACGIH: TWA	1.5 mg/m <sup>3</sup> (metal, inhalable fraction)
		USA: NIOSH: TWA	0.015 mg/m <sup>3</sup>
		USA: OSHA: TWA	1 mg/m <sup>3</sup> (Nickel and compounds)
7440-47-3	Chromium	Canada, Alberta: OEL 8 hour	0.5 mg/m <sup>3</sup>
		Canada, BC: OEL TWA	0.5 mg/m <sup>3</sup>
		Canada, Québec: VEMP	0.5 mg/m <sup>3</sup>
		USA: ACGIH: TWA	0.5 mg/m <sup>3</sup>
		USA: NIOSH: TWA	0.5 mg/m <sup>3</sup>
		USA: OSHA: TWA	0.5 mg/m <sup>3</sup>
7439-96-5	Manganese	Canada, Alberta: OEL 8 hour	0.2 mg/m <sup>3</sup>
		Canada, BC: OEL TWA	0.2 mg/m <sup>3</sup>
		Canada, Québec: VEMP	0.2 mg/m <sup>3</sup> Smoke, inhalable fraction
		OSHA: Ceiling	5 mg/m <sup>3</sup>
		USA: ACGIH: TWA	0.02 mg/m <sup>3</sup> respirable fraction
		USA: ACGIH: TWA	0.1 mg/m <sup>3</sup> inhalable fraction
		USA: NIOSH: STEL	3 mg/m <sup>3</sup>
		USA: NIOSH: TWA	1 mg/m <sup>3</sup>
7440-21-3	Silicon	Canada, Ontario: OEL TWA	10 mg/m <sup>3</sup>
		Canada, Québec: VEMP	10 mg/m <sup>3</sup> (inhalable fraction)
		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)
7440-50-8	Copper	Canada, Alberta: OEL 8 hour	0.2 mg/m <sup>3</sup> Smoke
		Canada, Alberta: OEL 8 hour	1 mg/m <sup>3</sup> Dusts and mist
		Canada, BC: OEL TWA	0.2 mg/m <sup>3</sup> Smoke
		Canada, BC: OEL TWA	1 mg/m <sup>3</sup>
		Canada, Québec: VEMP	0.2 mg/m <sup>3</sup> (Smoke, calculated as Cu)
		Canada, Québec: VEMP	1 mg/m <sup>3</sup> (Dusts and mist, calculated as Cu)
		USA: ACGIH: TWA	0.2 mg/m <sup>3</sup> Smoke
		USA: ACGIH: TWA	1 mg/m <sup>3</sup> Dusts and mist calculated as Cu
		USA: NIOSH: TWA	1 mg/m <sup>3</sup>
		USA: OSHA: TWA	0.1 mg/m <sup>3</sup> (Smoke; calculated as Cu)
USA: OSHA: TWA	1 mg/m <sup>3</sup> Dusts and mist calculated as Cu		

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CAS No.	Designation	Type	Limit value		
7439-98-7	Molybdenum	Canada, Alberta: OEL 8 hour	0.5 mg/m <sup>3</sup> compounds, soluble; respirable fraction		
		Canada, Alberta: OEL 8 hour	10 mg/m <sup>3</sup> (Metal insoluble compounds total)		
		Canada, Alberta: OEL 8 hour	3 mg/m <sup>3</sup> (metal, compounds, insoluble; respirable fraction)		
		Canada, BC: OEL TWA	0.5 mg/m <sup>3</sup> compounds, soluble; respirable fraction		
		Canada, BC: OEL TWA	10 mg/m <sup>3</sup> metal and compounds, insoluble; inhalable fraction		
		Canada, BC: OEL TWA	3 mg/m <sup>3</sup> metal and compounds, insoluble; respirable fraction		
		Canada, Québec: VEMP	10 mg/m <sup>3</sup> compounds, insoluble		
		Canada, Québec: VEMP	5 mg/m <sup>3</sup> compounds, soluble		
		USA: ACGIH: TWA	0.5 mg/m <sup>3</sup> soluble; inhalable fraction		
		USA: ACGIH: TWA	10 mg/m <sup>3</sup> insoluble; inhalable fraction		
		USA: ACGIH: TWA	3 mg/m <sup>3</sup> insoluble; respirable fraction		
7429-90-5	Aluminium	USA: OSHA: TWA	15 mg/m <sup>3</sup>		
		USA: OSHA: TWA	5 mg/m <sup>3</sup>		
		Canada, Alberta: OEL 8 hour	10 mg/m <sup>3</sup> (Metal Dust)		
		Canada, Alberta: OEL 8 hour	5 mg/m <sup>3</sup> (Pyro powders, calculated as Al)		
		Canada, BC: OEL TWA	1 mg/m <sup>3</sup>		
		Canada, Québec: VEMP	10 mg/m <sup>3</sup> Metals		
		NIOSH: Ceiling	5 mg/m <sup>3</sup> (inhalable fraction)		
		USA: ACGIH: TWA	1 mg/m <sup>3</sup>		
		USA: NIOSH: TWA	10 mg/m <sup>3</sup> (inhalable fraction)		
		USA: NIOSH: TWA	5 mg/m <sup>3</sup> (inhalable fraction)		
		USA: OSHA: TWA	15 mg/m <sup>3</sup> (inhalable fraction)		
7440-44-0	Carbon	USA: OSHA: TWA	5 mg/m <sup>3</sup> (respirable fraction)		
		Canada, Alberta: OEL 8 hour	10 mg/m <sup>3</sup> Dust limit value inhalable fraction		
		Canada, Alberta: OEL 8 hour	3 mg/m <sup>3</sup> Dust limit value respirable fraction		
		Canada, BC: OEL TWA	10 mg/m <sup>3</sup> Dust limit value inhalable fraction		
		Canada, Ontario: OEL TWA	10 mg/m <sup>3</sup> Dust limit value inhalable fraction		
		Canada, Ontario: OEL TWA	3 mg/m <sup>3</sup> Dust limit value respirable fraction		
		Canada, Québec: VEMP	10 mg/m <sup>3</sup> Dust limit value inhalable fraction		
		USA: OSHA: TWA	15 mg/m <sup>3</sup> inhalable fraction		
		USA: OSHA: TWA	5 mg/m <sup>3</sup> (respirable fraction)		
		7723-14-0	phosphorus	Canada, Alberta: OEL 8 hour	0.1 mg/m <sup>3</sup>
				Canada, Québec: VEMP	0.1 mg/m <sup>3</sup>
USA: NIOSH: TWA	0.1 mg/m <sup>3</sup>				
7704-34-9	Sulfur	Canada, Alberta: OEL 8 hour	10 mg/m <sup>3</sup>		

### 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.

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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: gray-black
Odor:	odorless
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:	not combustible
Evaporation rate:	No data available
Flammability:	non-flammable
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Water solubility:	insoluble
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:	No data available
Hazardous decomposition products:	On heating or in case of fire toxic gases may form.
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): 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. May cause sensitisation especially in sensitive humans.  
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 Nickel:  
IARC Rating: Group 2B  
OSHA Carcinogen: not listed  
NTP Rating: listed  
Information about Chromium:  
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. Harmful by inhalation.  
Lung damage is possible in a chronic situation. Cough, shortage of breath.  
In case of ingestion: May be harmful if swallowed.  
After contact with skin: In the case of the formation of dust: May cause irritations.  
After eye contact: Dust contact with the eyes can lead to mechanical irritation.

## 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.

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### 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

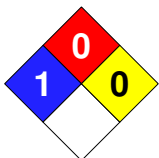
No data available

#### 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

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#### Department issuing data sheet

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



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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.