

SAFETY DATA SHEET

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



HSS Hole Saw

Product number 028

Revision date: Mar/14/2019
Version: 6

Language: en-US,CA

Date of print: Oct/8/2019
Page: 1 of 13

1. Product and company identification

Product identifier

Trade name: HSS Hole Saw

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
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
Odor: No data available
Classification: Acute Toxicity - inhalative - Category 3; Respiratory Sensitizer -
Category 1; Sensitization - skin - Category 1; Carcinogenicity -
Category 1B; Reproductive toxicity - Category 2; Aquatic toxicity - acute -
Category 1; Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word:

Danger

Hazard statements: May cause an allergic skin reaction.
Toxic if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause cancer.
Suspected of damaging fertility.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

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Precautionary statements:

Obtain special instructions before use.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation wear respiratory protection.
IF ON SKIN: Wash with plenty of water/soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Call a POISON CENTER/doctor.
Specific treatment (see ' First aid ' on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
Wash contaminated clothing before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
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 being sawed. Most of the dust generated during sawing is from the base material being sawed 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. Dust contact with the eyes can lead to mechanical irritation.
see section 11: Toxicological information

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3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 7439-89-6	Iron	69 - 97 %	not classified
CAS 7439-98-7	Molybdenum	< 10 %	not classified
CAS 7440-48-4	Cobalt	< 9 %	Acute Toxicity - oral - Category 4. Acute Toxicity - inhalative - Category 1. Eye Irritation - Category 2A. Respiratory Sensitizer - Category 1. Sensitization - skin - Category 1. Carcinogenicity - Category 1B. Reproductive toxicity - Category 2. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 7440-47-3	Chromium	< 4.5 %	not classified
CAS 7440-33-7	Tungsten	< 2 %	not classified
CAS 7440-44-0	Carbon black	< 1.5 %	not classified
CAS 7440-62-2	Vanadium	< 1.5 %	not classified
CAS 7440-02-0	Nickel	< 1 %	Sensitization - skin - Category 1. Carcinogenicity - Category 2. Specific Target Organ Toxicity (Repeated Exposure) - Category 1. Aquatic toxicity - chronic - Category 3.
CAS 7439-96-5	Manganese	< 1 %	not classified
CAS 7440-21-3	Silicon	< 1 %	not classified
CAS 7723-14-0	Phosphorus	<= 0.03 %	not classified
CAS 7704-34-9	Sulfur	<= 0.03 %	Skin Irritation - Category 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: Provide fresh air. If you feel unwell, seek medical advice.
- Following skin contact: 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: 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. Immediately get medical attention.

Most important symptoms/effects, acute and delayed

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.
Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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

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

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:

Avoid generation of dust. Do not inhale substance.
Provide adequate ventilation. Wear appropriate protective equipment.
Avoid contact with the substance. Keep unprotected people away. Avoid exposure.

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.
Obtain special instructions before use. The product is to be handled with extreme caution.
Work place should be equipped with a shower and an eye rinsing apparatus.

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 ³ (smoke, dust)
		USA: OSHA: TWA	10 mg/m ³ (Smoke)
7439-98-7	Molybdenum	Canada, Alberta: OEL 8 hour	0.5 mg/m ³ compounds, soluble; respirable fraction
		Canada, Alberta: OEL 8 hour	10 mg/m ³ (Metal insoluble compounds total)
		Canada, Alberta: OEL 8 hour	3 mg/m ³ (metal, compounds, insoluble; respirable fraction)
		Canada, BC: OEL TWA	0.5 mg/m ³ compounds, soluble; respirable fraction
		Canada, BC: OEL TWA	10 mg/m ³ metal and compounds, insoluble; inhalable fraction
		Canada, BC: OEL TWA	3 mg/m ³ metal and compounds, insoluble; respirable fraction
		Canada, Québec: VEMP	10 mg/m ³ compounds, insoluble
		Canada, Québec: VEMP	5 mg/m ³ compounds, soluble
		USA: ACGIH: TWA	0.5 mg/m ³ soluble; inhalable fraction
		USA: ACGIH: TWA	10 mg/m ³ insoluble; inhalable fraction
7440-48-4	Cobalt	USA: ACGIH: TWA	3 mg/m ³ insoluble; respirable fraction
		USA: OSHA: TWA	15 mg/m ³
		USA: OSHA: TWA	5 mg/m ³
		Canada, Alberta: OEL 8 hour	0.02 mg/m ³
		Canada, Québec: VEMP	0.02 mg/m ³
		USA: ACGIH: TWA	0.02 mg/m ³ (inhalable fraction)
7440-47-3	Chromium	USA: NIOSH: TWA	0.05 mg/m ³
		USA: OSHA: TWA	0.1 mg/m ³
		Canada, Alberta: OEL 8 hour	0.5 mg/m ³
		Canada, BC: OEL TWA	0.5 mg/m ³
		Canada, Québec: VEMP	0.5 mg/m ³
		USA: ACGIH: TWA	0.5 mg/m ³ (inhalable fraction)
USA: NIOSH: TWA	0.5 mg/m ³		
USA: OSHA: TWA	0.5 mg/m ³		

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CAS No.	Designation	Type	Limit value
7440-33-7	Tungsten	Canada, Alberta: OEL 15 min	10 mg/m ³ (metal, compounds, insoluble)
		Canada, Alberta: OEL 15 min	3 mg/m ³ compounds, soluble
		Canada, Alberta: OEL 8 hour	1 mg/m ³ compounds, soluble
		Canada, Alberta: OEL 8 hour	5 mg/m ³ (metal, compounds, insoluble)
		Canada, BC: OEL STEL	10 mg/m ³ (Metal, insoluble)
		Canada, BC: OEL STEL	3 mg/m ³ compounds, soluble
		Canada, BC: OEL TWA	1 mg/m ³ compounds, soluble
		Canada, BC: OEL TWA	5 mg/m ³ (Metal, insoluble)
		Canada, Québec: VECD	10 mg/m ³ (calculated as W)
		Canada, Québec: VECD	3 mg/m ³ compounds, soluble
		Canada, Québec: VEMP	1 mg/m ³ compounds, soluble
		Canada, Québec: VEMP	5 mg/m ³ (calculated as W)
		USA: ACGIH: STEL	10 mg/m ³ compounds, insoluble
		USA: ACGIH: STEL	3 mg/m ³ compounds, soluble
		USA: ACGIH: TWA	1 mg/m ³ compounds, soluble
		USA: ACGIH: TWA	5 mg/m ³ compounds, insoluble
		USA: NIOSH: STEL	10 mg/m ³ compounds, insoluble
		USA: NIOSH: STEL	3 mg/m ³ compounds, soluble
		USA: NIOSH: TWA	1 mg/m ³ compounds, soluble
		USA: NIOSH: TWA	5 mg/m ³ compounds, insoluble
7440-44-0	Carbon black	Canada, Alberta: OEL 8 hour	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada, Alberta: OEL 8 hour	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada, BC: OEL TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada, Ontario: OEL TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada, Ontario: OEL TWA	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada, Québec: VEMP	10 mg/m ³ (Dust limit value, inhalable fraction)
		USA: ACGIH: TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		USA: ACGIH: TWA	3 mg/m ³ (Dust limit value, respirable fraction)
		USA: OSHA: TWA	15 mg/m ³ inhalable fraction
		USA: OSHA: TWA	5 mg/m ³ (respirable fraction)
7440-02-0	Nickel	Canada, Alberta: OEL 8 hour	1.5 mg/m ³ (metal)
		Canada, BC: OEL TWA	0.05 mg/m ³
		Canada, Ontario: OEL TWA	1 mg/m ³ (metal, inhalable fraction)
		Canada, Québec: VEMP	1 mg/m ³ (metal)
		USA: ACGIH: TWA	1.5 mg/m ³ (metal, inhalable fraction)
		USA: NIOSH: TWA	0.015 mg/m ³
USA: OSHA: TWA	1 mg/m ³ (Nickel and compounds)		
7439-96-5	Manganese	Canada, Alberta: OEL 8 hour	0.2 mg/m ³
		Canada, BC: OEL TWA	0.02 mg/m ³ (inhalable fraction)
		Canada, BC: OEL TWA	0.2 mg/m ³ (respirable fraction)
		Canada, Québec: VEMP	0.2 mg/m ³ (Smoke, inhalable fraction)
7440-21-3	Silicon	Canada, Ontario: OEL TWA	10 mg/m ³
		Canada, Québec: VEMP	10 mg/m ³ (inhalable fraction)
		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)

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CAS No.	Designation	Type	Limit value
7723-14-0	Phosphorus	Canada, Alberta: OEL 8 hour	0.1 mg/m ³
		Canada, Québec: VEMP	0.1 mg/m ³
		USA: NIOSH: TWA	0.1 mg/m ³
7704-34-9	Sulfur	Canada, Alberta: OEL 8 hour	10 mg/m ³

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
7440-48-4	Cobalt	USA: ACGIH-BEI, urine	15 µg/L	Cobalt; not combined with Tungsten Carbide	end of shift at end of workweek

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. 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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: solid
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

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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: 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): Based on available data, the classification criteria are not met.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Acute Toxicity - inhalative - Category 3 = Toxic if inhaled.
Skin corrosion/irritation: Lack of data.
Serious eye damage/irritation: Lack of data.
Sensitisation to the respiratory tract: Respiratory Sensitizer - Category 1 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Carcinogenicity - Category 1B = May cause cancer.
Reproductive toxicity: Reproductive toxicity - Category 2 = Suspected of damaging fertility.
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: For carcinogenic effects:
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
Information about Cobalt:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Release of Cobalt-dust:
Fatal if inhaled. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer by inhalation. Suspected of damaging fertility.
Information about Cobalt:
LD50, Rat, oral: 550 mg/kg (OECD 425)
LC50, Rat, inhalative (dusts/mist): < 0.05 mg/L/4h (OECD 436)
LD50, Rat, dermal: > 2000 mg/kg

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12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.
Information about Cobalt: Very toxic to aquatic life with long lasting effects.
Algae toxicity:
EC50 Selenastrum capricornutum: 0.035 mg/L/72 h
Bacterial toxicity:
EC50 activated sludge: > 50 mg/L/3 h
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): >100 mg/L/48 h
Fish toxicity:
LC50 Brachydanio rerio (zebra-fish): > 100 mg/L/96h
Information about tungsten carbide:
Algae toxicity:
EC50 Selenastrum capricornutum: 80 mg/L/72 h
Bacterial toxicity:
EC20 activated sludge: > 1000 mg/L/3 h
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): >1000 mg/L/48 h
Fish toxicity:
LC50 Brachydanio rerio (zebra-fish): > 1000 mg/L/96h

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

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Canada: Transportation of Dangerous Goods (TDG)

Shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted
Marine pollutant: not applicable

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.
Molybdenum:	NIOSH Recommendations: Occupational Health Guideline: 0433*
Cobalt:	Carcinogen Status: IARC Rating: Group 2B OSHA Carcinogen: not listed NTP Rating: not listed Other Environmental Laws: RCRA Groundwater Monitoring: Methods 6010, 7200, 720 / PQL 70, 500, 10 SARA Title III Section 313, Toxic Release: Conc. 0.1% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0146
Chromium:	Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed Clean Water Act: Priority Pollutant: yes Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Hazardous Wastes: Code D007 RCRA Groundwater Monitoring: Methods 6010, 7190, 719 / PQL 70, 500, 10 SARA Title III Section 313, Toxic Release: Conc. 0.1% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0141
Carbon black:	NIOSH Recommendations: Occupational Health Guideline: 0307
Vanadium:	Other Environmental Laws: RCRA Groundwater Monitoring: Methods 6010, 7910, 791 / PQL 80, 2000, 40
Nickel:	Carcinogen Status: IARC Rating: Group 2B OSHA Carcinogen: not listed NTP Rating: listed Clean Water Act: Priority Pollutant: yes Other Environmental Laws: CERCLA: RQ 100* lbs. RCRA Groundwater Monitoring: Methods 6010, 7520 / PQL 50, 400 SARA Title III Section 313, Toxic Release: Conc. 0.1% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0445*
Manganese:	Other Environmental Laws: SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0379*

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Silicon: NIOSH Recommendations:
Occupational Health Guideline: 0554

Phosphorus: Clean Air Act:
Hazardous Air Pollutants: Code X
Clean Water Act:
Hazardous Substances: RQ 1 lbs.
Other Environmental Laws:
CERCLA: RQ 1 lbs.
Marine Pollutant: listed as severe pollutant.
SARA Title III Section 302, EHS: TPQ 100 lbs. / RQ 1 lbs.
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard
NIOSH Recommendations:
Occupational Health Guideline: 0507

National regulations - U.S. State Regulations

Cobalt: California Proposition 65: cancer

Nickel: California Proposition 65: cancer

National regulations - Canada

No data available

16. Other information

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		0
PHYSICAL HAZARD		0
		X

Reason of change: General revision

Date of first version: May/6/2016

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.