

SAFETY DATA SHEET

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



Electroplated Diamond/CBN-Tools

Product number 017

Revision date: Oct/17/2017
Version: 3

Language: en-US,CA

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

1. Product and company identification

Product identifier

Trade name: Electroplated Diamond/CBN-Tools
This safety data sheet pertains to the following products:
Diamond/CBN Grinding Points, Electroplated Bond
Diamond/CBN Cut-Off Wheels, Electroplated Bond
Diamond Files

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

General use: Abrasive product.
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: Sensitization - skin - Category 1; Carcinogenicity -
Category 2; Specific Target Organ Toxicity (Repeated Exposure) - Category 1;

Hazard symbols:



Signal word:

Danger

Hazard statements:

May cause an allergic skin reaction.
Suspected of causing cancer.
Causes damage to organs through prolonged or repeated exposure.

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Precautionary statements:

Obtain special instructions before use.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash hands and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see ' First aid ' on this label).
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
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

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: The components listed below represent the chemical composition of the Nickel/Diamond-layer.
Electroplated Diamond Tools

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 7440-02-0	Nickel	40 - 70 %	Sensitization - skin - Category 1. Carcinogenicity - Category 2. Specific Target Organ Toxicity (Repeated Exposure) - Category 1. Aquatic toxicity - chronic - Category 3.
CAS 7782-40-3	Diamond	30 - 60 %	not classified

Additional information: Contains Steel Core

4. First aid measures

In case of inhalation: Provide fresh air. If you feel unwell, seek medical advice.

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- Following skin contact: Remove residues with soap and water. Remove 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 any. In case of eye irritation consult an ophthalmologist.
- After swallowing: Rinse mouth with water. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Most important symptoms/effects, acute and delayed

May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure.

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:

Co-ordinate fire-fighting measures to the fire surroundings.

Specific hazards arising from the chemical

In case of fire may form nitrogen oxides (NO_x).

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical 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.

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: Obtain special instructions before use.

Provide adequate ventilation, and local exhaust as needed.
Avoid generation of dust. Do not inhale substance. Wear appropriate protective equipment.
Do not get in eyes, on skin, or on clothing.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Remove contaminated clothing and wash it before reuse.

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Precautions against fire and explosion:

Danger of dust explosion. Keep away from sources of ignition.

Storage

Requirements for storerooms and containers:

Keep container tightly closed and dry.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
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)

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:

Obtain special instructions before use.

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

Odor: No data available

Odor threshold: No data available

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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: No data available

Hazardous decomposition products:
In case of fire may form nitrogen oxides (NO_x).

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. Information about Nickel: Rabbit, mild irritant
Serious eye damage/irritation: Lack of data. Information about Nickel: Rabbit, mild irritant
Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.
Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.
Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Carcinogenicity - Category 2 = Suspected of causing cancer.
Reproductive toxicity: Based on available data, the classification criteria are not met.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) -
Category 1 = Causes damage to organs through prolonged or repeated exposure. Causes damage to organs through prolonged or repeated exposure.
target organ: respiratory system
exposure route: inhalation
Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Information about Nickel compounds: IARC Group 1, Carcinogenic to humans
Information about Nickel (CAS No. 7440-02-0):
Carcinogen Status:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: listed

Symptoms

In case of inhalation:
In the case of the formation of dust: irritation to respiratory tract, Headache, Cough, sneeze, hoarseness.
After contact with skin:
Frequently or prolonged contact with skin may cause dermal irritation. itching redness of the skin
After eye contact: Eye contact may cause irritation, redness, tearing or blurry vision.

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 contents/container in accordance with local/regional/national/international regulation.
Dispose of waste product or used containers according to local regulations.

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.

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*

National regulations - U.S. State Regulations

Nickel: California Proposition 65: cancer

National regulations - Canada

No data available

16. Other information

Hazard rating systems:



NFPA Hazard Rating:
Health: 2 (Moderate)
Fire: 1 (Slight)
Reactivity: 0 (Minimal)

HMIS Version III Rating:
Health: 2 (Moderate) - Chronic effects
Flammability: 1 (Slight)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
X		

Reason of change: Changes in section 1, telephone Nr. USA
Date of first version: Dec/1/2015

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.