SAFETY DATA SHEET

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

Power Wire Brushes - Stainless Steel and Ecap Stainless Steel

Product number 021

1. Product and company identification

Product identifier

Trade name: Power Wire Brushes - Stainless Steel and Ecap 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
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: Physical state at 68 °F (20 °C) and 101.3 kPa: solid
Color: gray-black (wire Material)

Odor: odorless

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.

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 brushed. Most of the dust generated during brushing is from the base material being brushed 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.
In the case of the formation of dust: Harmful by inhalation and if swallowed.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization:

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

Relevant ingredients:

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

Additional information: The specific identity and/or exact percentage has been withheld as a trade secret..
The product might contain: Polyurethane, cured.

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. Seek medical attention.

Most important symptoms/effects, 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 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:
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.

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 vapors or dust particles.
Provide adequate ventilation. Wear appropriate protective equipment.
Avoid contact with dust. Avoid exposure. 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 vapors or dust particles.
Wear appropriate protective equipment.
Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Work place should be equipped with a shower and an eye rinsing apparatus.
When using do not eat, drink or smoke.
Wash hands before breaks and after work. Obtain special instructions before use.

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
7439-89-6	Iron	USA: ACGIH: TWA	10 mg/m³ (smoke, dust)
		USA: OSHA: TWA	10 mg/m³ (Smoke)
7440-02-0	Nickel	Canada: OEL 8 hour	1.5 mg/m³ (metal)
		Canada: OEL TWA	0.05 mg/m³ (compounds, insoluble)
		Canada: OEL TWA	0.05 mg/m³ (compounds, soluble)
		Canada: OEL TWA	1 mg/m³ (metal, inhalable fraction)
		Canada: VEMP	1.5 mg/m³ (inhalable fraction)
		USA: ACGIH: TWA	1.5 mg/m³ (metal, inhalable fraction)
		USA: IDLH: TWA	10 Ni/m3
		USA: NIOSH: TWA	0.015 mg/m³
		USA: OSHA: TWA	1 mg/m³ (metal and insoluble compounds)
		USA: OSHA: TWA	1 mg/m³ (metal and soluble compounds)
7440-47-3	Chromium	Canada: OEL 8 hour	0.5 mg/m³
		Canada: OEL TWA	0.5 mg/m³ (inhalable fraction)
		Canada: VEMP	0.5 mg/m³ (Aerosol, inhalable fraction)
		USA: ACGIH: TWA	0.5 mg/m³ (inhalable fraction)
		USA: IDLH: TWA	250 Cr(II)/m3
		USA: NIOSH: TWA	0.5 mg/m³
		USA: OSHA: TWA	0.5 mg/m³
7439-96-5	Manganese	Canada: OEL TWA	0.02 mg/m³ (respirable fraction)
		Canada: OEL TWA	0.1 mg/m³ (inhalable fraction)
		Canada: OEL TWA	0.2 mg/m³
		Canada: VEMP	0.05 mg/m³ (Aerosol, respirable fraction)
		Canada: VEMP	0.2 mg/m³ (Aerosol, inhalable fraction)
		USA: ACGIH: TWA	0.02 mg/m³ (respirable fraction)
		USA: ACGIH: TWA	0.1 mg/m³ (inhalable fraction)
		USA: IDLH: TWA	500 Mn/m3
		USA: NIOSH: STEL	3 mg/m³
		USA: NIOSH: TWA	1 mg/m³
		USA: OSHA: Ceiling	5 mg/m³
7440-21-3	Silicon	Canada: VEMP	10 mg/m³ (total dust)
		USA: NIOSH: TWA	10 mg/m³ (inhalable fraction)
		USA: NIOSH: TWA	5 mg/m³ (respirable fraction)
		USA: OSHA: TWA	15 mg/m³ (inhalable fraction)
		USA: OSHA: TWA	5 mg/m³ (respirable fraction)

CAS No.	Designation	Type	Limit value
7440-50-8	Copper	Canada: OEL 8 hour	0.2 mg/m³ (Smoke)
		Canada: OEL 8 hour	1 mg/m³ (Dusts and mist)
		Canada: OEL TWA	0.2 mg/m³ (Smoke)
		Canada: OEL TWA	1 mg/m³ (Dusts and mist)
		Canada: VEMP	0.2 mg/m³ (Smoke, calculated as Cu)
		Canada: VEMP	1 mg/m³ (Dusts and mist calculated as Cu)
		USA: ACGIH: TWA	0.2 mg/m³ (Smoke)
		USA: ACGIH: TWA	1 mg/m³ (Dusts and mist calculated as Cu)
		USA: IDLH: TWA	100 Cu/m3 (dust and mist)
		USA: IDLH: TWA	100 Cu/m3 (Smoke)
		USA: NIOSH: TWA	1 mg/m³
		USA: OSHA: TWA	0.1 mg/m³ (Smoke; calculated as Cu)
		USA: OSHA: TWA	1 mg/m³ (Dusts and mist calculated as Cu)
7439-98-7	Molybdenum	Canada: OEL 8 hour	0.5 mg/m³ (compounds, soluble; respirable fraction)
		Canada: OEL 8 hour	10 mg/m³ (metal, compounds, insoluble)
		Canada: OEL 8 hour	3 mg/m³ (metal, compounds, insoluble; respirable fraction)
		Canada: OEL TWA	0.5 mg/m³ (compounds, soluble; respirable fraction)
		Canada: OEL TWA	10 mg/m³ (metal and compounds, insoluble; inhalable fraction)
		Canada: OEL TWA	3 mg/m³ (metal and compounds, insoluble; respirable fraction)
		Canada: VEMP	0.5 mg/m³ (compounds, soluble; respirable fraction)
		Canada: VEMP	10 mg/m³ (compounds, insoluble; inhalable fraction)
		Canada: VEMP	3 mg/m³ (compounds, insoluble; respirable fraction)
		USA: ACGIH: TWA	0.5 mg/m³ (soluble; inhalable fraction)
		USA: ACGIH: TWA	10 mg/m³ (insoluble; inhalable fraction)
		USA: ACGIH: TWA	3 mg/m³ (insoluble; respirable fraction)
		USA: IDLH: TWA	1,000 Mo/m3 (compounds, soluble)
		USA: IDLH: TWA	5,000 Mo/m3 (compounds, insoluble)
		USA: OSHA: TWA	15 mg/m³ (compounds, insoluble, total dust)
		USA: OSHA: TWA	5 mg/m³ (compounds, soluble)
7429-90-5	Aluminium	Canada: OEL 8 hour	10 mg/m³ (metal, dust)
		Canada: OEL 8 hour	5 mg/m³ (Aluminium powder, pyrotechnic)
		Canada: OEL TWA	1 mg/m³ (Pyrotechnical powders)
		USA: ACGIH: TWA	1 mg/m³
		USA: NIOSH: Ceiling	5 mg/m³ (inhalable fraction)
		USA: NIOSH: TWA	10 mg/m³ (inhalable fraction)
		USA: NIOSH: TWA	5 mg/m³ (inhalable fraction)
		USA: OSHA: TWA	15 mg/m³ (inhalable fraction)
		USA: OSHA: TWA	5 mg/m³ (respirable fraction)

CAS No.	Designation	Type	Limit value
7440-44-0	Carbon	Canada: OEL 8 hour	10 mg/m³ (Dust limit value, inhalable fraction)
		Canada: OEL 8 hour	3 mg/m³ (Dust limit value, respirable fraction)
		Canada: OEL TWA	10 mg/m³ (Dust limit value, inhalable fraction)
		Canada: OEL TWA	3 mg/m³ (Dust limit value, respirable fraction)
		Canada: VEMP	10 mg/m³ (total dust)
		Canada: VEMP	3 mg/m³ (total dust, respirable fraction)
		USA: ACGIH: TWA	10 mg/m³ (Dust limit value, inhalable fraction)
		USA: ACGIH: TWA	3 mg/m³ (Dust limit value, respirable fraction)
		USA: OSHA: TWA	15 mg/m³ (inhalable fraction)
		USA: OSHA: TWA	5 mg/m³ (respirable fraction)
7723-14-0	phosphorus	Canada: OEL 8 hour	0.1 mg/m³
		USA: IDLH: TWA	5 mg/m³
		USA: NIOSH: TWA	0.1 mg/m³
7704-34-9	Sulfur	Canada: OEL 8 hour	10 mg/m³

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
7440-47-3	Chromium	USA: ACGIH-BEI, urine	0.7	Total Chromium	end of shift at end of work week

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 vapors or dust particles.
Avoid contact with skin and eyes.
When using do not eat, drink or smoke. Take off contaminated clothing and wash it before reuse.
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.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F (20 °C) and 101.3 kPa: solid Color: gray-black (wire Material)
Odor:	odorless
Odor threshold:	No data available
pH:	Not applicable
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

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.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Carcinogenicity - Category 2 = Suspected of causing cancer.

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): Specific Target Organ Toxicity (Repeated Exposure) -
Category 1 = Causes damage to organs through prolonged or repeated exposure.

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.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Package

Recommendation: Dispose of waste according to applicable legislation. Packing can be recycled or disposed of.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:
not applicable

UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
Not restricted

Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:
not applicable

Packing group

ADR/RID, IMDG, IATA-DGR:
not applicable

Environmental hazards

Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

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 - U.S. Federal Regulations

Product:
This product is an article as defined by TSCA regulations, and is exempt from TSCA inventory listing requirements.

Iron:
TSCA Inventory: listed

Nickel:
TSCA Inventory: listed

Carcinogen Status:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: listed

Clean Water Act:
CWA Priority Pollutants: 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*

Chromium:
TSCA Inventory: listed

Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Clean Water Act:
CWA Priority Pollutants: 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

Manganese:
TSCA Inventory: listed

NIOSH Recommendations:
Occupational Health Guideline: 0379*

Silicon:
TSCA Inventory: listed

NIOSH Recommendations:
Occupational Health Guideline: 0554

Copper:	TSCA Inventory: listed Clean Water Act: CWA Priority Pollutants: yes Other Environmental Laws: CERCLA: RQ 5000* lbs. Marine Pollutant: listed as severe pollutant. RCRA Groundwater Monitoring: Methods 6010, 7210 / PQL 60, 200 SARA Title III - Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0150*
Molybdenum:	TSCA Inventory: listed NIOSH Recommendations: Occupational Health Guideline: 0433*
Aluminium:	TSCA Inventory: listed NIOSH Recommendations: Occupational Health Guideline: 0022
Carbon:	TSCA Inventory: listed NIOSH Recommendations: Occupational Health Guideline: 0307
Vanadium:	TSCA Inventory: listed Other Environmental Laws: RCRA Groundwater Monitoring: Methods 6010, 7910, 791 / PQL 80, 2000, 40
Nitrogen:	TSCA Inventory: listed
phosphorus:	TSCA Inventory: listed Clean Air Act: CAA Hazardous Air Pollutants: yes Clean Water Act: CWA 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
Sulfur:	TSCA Inventory: listed

National regulations - U.S. State Regulations

Nickel:	California Proposition 65: cancer
Nitrogen:	California Proposition 65 code: not listed Massachusetts Haz. Substance codes: 4 Pennsylvania Haz. Substance code: - Washington Air Contaminant: Simple Asphyxiant

National regulations - Canada

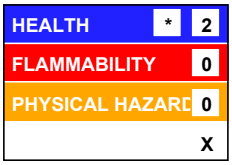
Iron:	DSL: listed
Nickel:	DSL: listed
Chromium:	DSL: listed
Manganese:	DSL: listed
Silicon:	DSL: listed
Copper:	DSL: listed
Molybdenum:	DSL: listed
Aluminium:	DSL: listed
Carbon:	DSL: listed
Vanadium:	DSL: listed
Nitrogen:	DSL: listed
phosphorus:	DSL: listed
Sulfur:	DSL: listed

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



Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Carcinogenicity: Carcinogenicity
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Sensitization - skin: Skin sensitisation
Skin Irritation: Skin irritation
STOT RE: Specific target organ toxicity - repeated exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
TSCA: Toxic Substance Control Act
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit
WHMIS: Workplace Hazardous Materials Information System

Reason of change: Changes in section 8: Occupational exposure limit values, Biological Limit Value
Date of first version: Jan/15/2016

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.