

MSDS

Carbon Steel Wire

Section I

Manufacturer's Name: Pferd Milwaukee Brush Company
Address: W142 N9251 Fountain Blvd. Menomonee Falls WI. 53051
Emergency Telephone Number: (262) 255-3200
Telephone Number for Information: (262) 255-3200
Date prepared: 11/2004

Section II - Hazardous Ingredients / Identity Information

Hazardous Components, (Specific Chemical Identity, Common Name(s))	CAS#	OSHA PEL	ACGIH TLV	% (optional)
BASE METAL:				
Iron	7439-89-6	10 mg/m ³	As iron oxide fumes	95-99%
ALLOYS:				
Carbon	7440-44-0	-	-	.01 - 1.25%
Manganese	7439-96-5	5 mg/m ³	As manganese	.25 - 1.65%
Phosphorous	7723-14-0	0.1 mg/m ³ (yellow)	As phosphorous	.04 max.
Silicon	7440-21-3	-	-	1.6% max.
Sulfur	7704-34-9	13 mg/m ³	As sulfur dioxide	.001 - .035%
Vanadium	7440-22-6	0.1 mg/m ³ 0.5 mg/m ³	As vanadium pentoxide (fume) As vanadium pentoxide (dust)	.01 - .35%
Chromium	7440-47-3	1 mg/m ³	As soluble chromic	.01 - 1.5%

Section III - Physical / Chemical Characteristics

Boiling Point: *N/A
Vapor Pressure (mm Hg.): *N/A
Vapor Density (AIR=1): *N/A
Solubility in Water: *N/A
Specific Gravity (H₂O=1): 7
Melting Point: *N/A
Evaporation Rate (Butyl Acetate=1): *N/A
Appearance and Odor: Grey black and odorless

Section IV - Fire and Explosion Hazard Data

Flash Point (method used): *N/A
Flammable Limits: LEL: *N/A UEL: *N/A
Extinguishing Media: *N/A
Special Fire Fighting Procedures: *N/A
Unusual Fire and Explosion Hazards: *N/A

Section V - Reactivity Data

Stability: Stable
Incompatibility (Materials to Avoid): None
Hazardous Decomposition or Byproducts: A) Metal fumes: Iron Oxide B) Manganese;
C) Vanadium Pentoxide; D) Chromium
Hazardous Polymerization: Not known

Section VI - Health Hazard Data

Route(s) of entry:
Inhalation? Yes
Skin? No
Ingestion? Seek medical help

Health Hazards	ACUTE	CHRONIC
Iron (iron oxide)	Irritation of eyes, nose, throat, metallic taste in mouth or metal fume fever.	Pulmonary effects, siderosis.
Manganese	Irritation of eyes, nose, throat, metallic taste in mouth or metal fume fever.	Bronchitis, pneumonitis, lack of coordination.

Vanadium	Irritant to conjunctivae and respiratory tract (greenish-black discoloration of tongue and shortness of breath).	
Chromium	Irritation of eyes, nose and lungs; dermatitis.	Various forms of dermatitis, inflammation and/or ulceration of upper respiratory tract and possible cancer of nasal passages and lungs. Based on available information, there does not appear to be any evidence that exposure to welding fumes induces human cancer.

Carcinogenicity:

NTP? Not known

Signs and Symptoms of Exposure: Not known

Emergency and First Aid Procedures: Wash skin with soap and water; seek medical attention.

Section VII - Precautions For Safe Handling And Use

Steps to be taken in case material is released or spilled: *N/A

Waste disposal method: *N/A

Precautions to be taken in handling and storage: *N/A

Other Precautions: Welding and cutting - adequate ventilation and/or approved respiratory protection should be provided if PEL is extended.

Section VIII - Control Measures

Respiratory protection (specify type): NIOSH approved dust/mist/fume respirator if OSHA PEL is exceeded.

Ventilation:

Local Exhaust: Mechanical (General):

Special: Depending on use, consult local, state and federal codes for appropriate selection.

Protective gloves: Check codes

Eye protection: Check codes

Other protective clothing or equipment: Depending on use, consult local, state and federal codes for appropriate selection.

Work/Hygienic Practices: Keep work area clean.

*N/A = Not applicable