

MSDS

Brass Wire

Section I

Manufacturer's Name: PFERD MILWAUKEE BRUSH

Address: W142 N9251 Fountain Blvd

Emergency Telephone Number: (262) 255-3200

Telephone Number for Information: (262) 255-3200

Date prepared: October 20, 2006

Name of preparer: Dawn Fuchs

Section II - Hazardous Ingredients / Identity Information

Hazardous Components, (Specific Chemical Identity, Common Name(s))	CAS#	OSHA PEL	ACGIH TLV	% Weight
BASE METAL:				
Copper	7440-50-8	1	1	69.0 - 70.0%
ALLOYS:				
Zinc	7440-66-6	None	None	29.0 - 31.0%
Lead	7439-92-1	0.05	0.15	0.07% max.
Iron	Trace			0.05% max.

Coatings: Optional - light surface coating of drawing lubricant
(less than 1% total weight of product)

Section III - Physical / Chemical Characteristics

Boiling Point: *N/A

Vapor Pressure (mm Hg.): *N/A

Vapor Density (AIR=1): *N/A

Percent Volatile by Volume: *N/A

Solubility in Alcohol: *N/A

Specific Gravity (H₂O=1): 8.53

Melting Point: *N/A

Evaporation Rate (Butyl Acetate=1): *N/A
 Solubility in Water: *N/A
 Solubility in Other Solvent: *N/A
 Appearance and Odor: Solid, grey black, odorless

Section IV - Fire and Explosion Hazard Data

Flash Point (method used):
 Flammable Limits: *N/A 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): *N/A
 Hazardous Decomposition or By-products: *N/A
 Hazardous Polymerization: Will not occur

Section VI - Health Hazard Data

Acute and Chronic Health Effects:
 Brass products in their natural state do not present an inhalation, ingestion or contact hazard;
 however, operations such as burning, welding, sawing, brazing and grinding may result in the following effects if exposures exceed permissible limits as listed in section II.

Health Hazards	ACUTE	CHRONIC
Copper	Irritation of eyes, nose, throat, metallic taste in mouth or metal fume fever.	Pulmonary effects.
Zinc	Short term flu-like symptoms (metal fume fever); may include fever, chills, nausea, vomiting, appears 4-12 hrs. after exposure, dermatitis (oxide pox).	None reported.
Lead	Ingestion or inhalation of large amounts of lead can cause severe headaches, convulsions, coma, delirium and possibly death.	Headache, constipation, abdominal pains, decreased appetite, CNS damage, reproductive effects.
Iron	(Iron oxide) - Irritation of eyes, nose, throat, metallic taste in mouth or metal fume fever.	(Iron oxide) - Pulmonary effects, siderosis.

First Aid: In case of excessive exposure, remove to fresh air, administer oxygen and seek physician's assistance.

Section VII - Precautions For Safe Handling And Use

Normal Storage and Handling: *N/A

Normal Use: *N/A

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

Steps to be taken in case material is released or spilled: Welding and cutting - adequate ventilation and/or approved respiratory protection should be provided if PEL is extended.

Waste disposal method: *N/A

Section VIII - Control Measures

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

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

Protective gloves: Recommended.

Eye protection: Always use approved eye protection.

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

*N/A = Not applicable