

# MSDS

## Bronze 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
<b>BASE METAL:</b>				
Copper	7440-50-8	1	1	94.0 - 95.0%
<b>ALLOYS:</b>				
Zinc	7440-66-6	None	None	0.3%
Lead	7439-92-1	0.05	0.15	0.5%.
Iron	Trace			0.1%
Tin	7440-31-5	2	2	5.8% max.
Phosphorous	Trace			0.03%

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 (H<sub>2</sub>O=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
<b>Copper</b>	Irritation of eyes, nose, throat, metallic taste in mouth or metal fume fever.	Pulmonary effects.
<b>Zinc</b>	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.
<b>Lead</b>	Ingestion or inhalation of large amounts of lead can cause severe headaches, convulsions, coma,	Headache, constipation, abdominal pains, decreased appetite, CNS damage,

	delirium and possibly death.	reproductive effects.
<b>Iron</b>	(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