

Material Safety Data Sheet
(Complies with 29 CFR 1910.1200)

Section I			
Manufacturer	Wellman Friction Products 920 Lake Road Medina, Ohio 44256		
Emergency Phone	330-725-4941	Effective Date	12-Feb-97
Chemical Name	Friction Material	Revision Date	21-Apr-98
Tradename	Sintered Friction Material		
Category	Inorganic-	829D	

Section II-Hazardous Ingredients/Identity				
Component	OSHA-PEL (mg/m3)	ACGIH-TLV (mg/m3)	%	CAS No.
Copper	1.0	1.0	Proprietary	7440-50-8
Iron	Total=15.0 Resp.= 5.0	10.0	Proprietary	7439-89-6
Carbon	Total=15.0 Resp.= 5.0	10.0	Proprietary	7782-42-5
Mullite/ Glass	Resp.= 5.0	10.0	Proprietary	1302-93-8, 60676-86-0

Section III Physical Characteristics			
Boiling Point	N/A	Sp.Gr. (H ₂ O = 1)	5.1
Vapor Press (mm Hg)	N/A	Solubility in Water	Not soluble
Reactivity in Water	N/A	Vapor Density	N/A
Melting Point	>1550 F	Color	Reddish copper colored
Appearance/Odor	Odorless		

Section IV-Fire and Explosion Data			
Flashpoint	N/A	Method Used	N/A
Flammable Limits (LEL/UEL)	N/A	Special Fire Fighting Proc.	None
Auto Ignition Temperature	Cu- Above 1290 F (700 C)	Extinguishing Media	Water, CO ₂ , foam, dry chemical
Unusual Fire and Explosion Hazards	None.		

Section V-Reactivity Data	
Stability	Stable
Incompatibility(Materials to Avoid)	N/A
Hazardous Decomposition Products	N/A
Hazardous Polymerization	Will not occur.
Conditions to Avoid	None

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Section VI -Health Hazards

Effects of Overexposure:

- a) Iron can cause coughing, slight upper respiratory irritation, and a metallic taste in the mouth.
- b) Chronic exposure to carbon as graphite dust can cause fibrosis, emphysema and corpulmale.
- c) Inhalation of high concentrations of copper dust may cause intense sneezing, nausea, weakness, and fever, hemolysis of red blood cells, depostion of hemofuscin in the liver and possible injury to lung cells.

Skin: Repeated exposure to copper (as salts) may casue dermatitis.

Emergency Procedures

Eye Contact: Copper may cause conjunctivitis or ulceration and turbidity of the cornea. In case of contact, immediately flush with water for 15 min. including under the eyelids. Seek medical help if material cannot be adequately removed from the eye.

Skin Contact: Wash thoroughly with soap and water.

Inhalation: Following exposure to a large amount of dust, remove from exposure. If breathing has stopped, perform artificial respiration. Contact a physician.

Ingestion: Seek medical advice immediately.

Section VII- Spill/Leak Procedures

Handling, Storage	N/A
DOT Shipping Rules	Non-hazardous as "article", no special precautions.
Spill/Leak	N/A
Waste Disposal Methods	Check with local counsel for applicable laws/regulations. Lead is subject to SARA 313R reporting.

Section VIII-Special Protection/Control Methods

Respiratory Protection/Ventilation	Use a NIOSH approved respirator with appropriate filters when exposed to brake wear products. Use exhaust venhilation to keep exposure below exposure limits.
Protective Gloves	Recommended, particularly if sensitive skin.
Eye Protection	Recommended.
Other Protective Equipment	Long sleeve shirts recommended.

Section IX- Special Precautions

No special precautions necessary.

Disclaimer

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