Section I				
Manufacturer	Wellman Friction Products 920 Lake Road Medina, Ohio 44256			
Emergency Phone	330-725-4941 Effective Date 5-Jun-86		5-Jun-86	
Chemical Name	Friction Material		Revision Date	21-Apr-98
Tradename	Sintered Friction Material			
Category	Inorganic-	859		

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
Molybdenum disulfide	15.0	15.0	Proprietary	1317-33-5

Section III Physical Characteristics			
Boiling Point	Cu- 4680 F	Sp.Gr. (H ₂ O = 1)	Cu -8.9
Vapor Press (mm Hg)	N/A	Solubility in Water	Not soluble
Reactivity in Water	N/A	Vapor Density	N/A
Melting Point	N/A	Color	Reddish colored powder
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 1290F (700 C)	Extinguishing Media	Graphite, dolomite, NaCl, CO2, foam,dry chemical
1	Cu powder below 50 µm is classified as weakly explosive material. When present as a dust cloud, will not explode readily in air. Not easily ignited by sparks.		

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	Strong oxidizing agents.

Section VI -Health Hazards

a) Iron can cause coughing, slight upper respiratory irritation, and a metallic taste in the mouth.
b) 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.
c) Molybdenum exposure can cause pneumoconiosis and "hard-metal lung disease".
Repeated exposure to copper (as salts) may casue dermatitis.
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.
Wash thoroughly with soap and water.
Following exposure to a large amount of dust, remove from exposure. If breathing has stopped,
perform artificial respiration. Contact a physician.
Under normal conditions of industrial use, ingestion is not expected to occur. When ingested,
molybdenum is considered a poison causing severe GI irritation, diarrhea, coma and death from
heart failure. Do not induce vomiting. Get medical attention. If patient is conscious, give large
quantities of water or milk.

Section VII- Spill/Leak Procedures	8
Handling, Storage	N/A
DOT Shipping Rules	Non-hazardous as "article", no special precautions.
Spill/Leak	Preferably vacuum to clean up. Avoid dusting. Wear respirator.
Waste Disposal Methods	Check with local counsel for applicable laws/regulations.

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

Store inside dry area. Temperature 0-100F.

Disclamer

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