Material Saftey Data Sheet (Complies with 29 CFR 1910.1200)

Section I			
Manufacturer	Carlisle Brake & Friction 920 Lake Road Medina, Ohio 44256		
Emergency Phone	330-725-4941	Effective Date	5-Jun-86
Chemical Name	Friction Material	Revision Date	5-Jan-15
Tradename	Sintered Friction Material		
Category	Inorganic- 761		

Section II-Hazardous Ingredients/Identity				
Component	OSHA-PEL (mg/m3)	ACGIH-TLV (mg/m3)	%	CAS No.
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
Silicon Carbide	Total=15.0 Resp.= 5.0	10.0	Proprietary	409-21-2
Copper	1.0	1.0	Proprietary	7440-50-8

Section III Physical Characteristics			
Boiling Point	N/A	Sp.Gr. $(H_2O = 1)$	N/A
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 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	N/A	Extinguishing Media	N/A
Unusual Fire and Explosion	N/A		
Hazards			

Section V-Reactivity Data		
Stability	Stable	
Incompatibility(Materials to Avoid)	N/A	
Hazardous Decomposition Products	Copper powder, Iron Oxide, Silicon Carbide Powder, Graphite	
Hazardous Polymerization	Will not occur.	
Conditions to Avoid	None.	

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Section VI -H	ealth Hazards
Effects of Overe	xposure:
	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 fribrosis, emphysema and corpulmale.
	c) Inhalation of high concentrations of copper dust may cause intense sneezing, nausea, weakness,
	and fever, hemolysis of red blood cells, deposition of hemofuscin in the liver and possible injury
	to lung cells.
Skin:	Repeated exposure to copper (as salts) may casue dermatitis.
Emergency Pro	cedures
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	N/A	
Spill/Leak	Preferably vacuum to clean up. Avoid dusting.	
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		

Avoid inhaling wear product when checking or overhauling brakes.

Disclamer

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