Material Saftey Data Sheet (Complies with 29 CFR 1910.1200)

Section I				
Manufacturer	Carlisle Brake &	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	9-Jun-15
Tradename	Sintered Friction Material			
Category	Inorganic-	A4B-11		

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
Silicon Carbide	Total=15.0 Resp.= 5.0	10.0	Proprietary	409-21-2
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Section III Physical Characteristics			
Boiling Point	N/A	Sp.Gr. $(H_2O = 1)$	N/A
Vapor Press (mm Hg)	N/A	Solubility in Water	N/A
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.	N/A
Auto Ignition Temperature	N/A	Extinguishing Media	N/A
Unusual Fire and Explosion Hazards	N/A		1

Section V-Reactivity Data		
Stability	N/A	
Incompatibility(Materials to Avoid)	N/A	
Hazardous Decomposition Products	N/A	
Hazardous Polymerization	N/A	
Conditions to Avoid	N/A	

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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 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, 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 Procedu	ires
Handling, Storage	N/A
DOT Shipping Rules	N/A
Spill/Leak	Preferably vacuum to clean up.
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 powder wear product when checking or overhauling brakes.

Disclamer

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