

Material Safety 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	3-Jan-03
Chemical Name	Friction Material	Revision Date	5-Jan-15
Tradename	Sintered Friction Material		
Category	Inorganic-	761H-8	

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
Calcium Fluoride	2.5	2.5	Proprietary	7789-75-5

Section III Physical Characteristics			
Boiling Point	N/A	Sp.Gr. (H ₂ O = 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	Gray
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 Hazards	N/A		

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

Material Safety Data Sheet
(Complies with 29 CFR 1910.1200)

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) CaF₂ dust may irritate eyes. Ingestion may cause gastrointestinal pain. May be harmful or fatal if ingested.

Skin: Repeated exposure may casue dermatitis.

Emergency Procedures

Eye Contact: 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.

Disclaimer

The information contained herein is based on data available at this time and is believed to be accurate. No warranty, however, is expressed or implied and in no event will Carlisle Brake & Friction be liable for incidental or consequential damages of any kind regarding the accuracy of this data or the results to be obtained from the use thereof. Since information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, no responsibility is assumed for the results of its use. The person receiving this information should make his own determination of the suitability of the material for his particular purpose.