



## SAFETY DATA SHEET

**Product Name:** Wilwood Smart Pad, BP-28 Friction Material (Sintered)

**Effective Date:** 07 July 2022

**Publication/Revision Date:** 20 August 2022

### 1) PRODUCT AND COMPANY IDENTIFICATION:

**Trade Name:** SmartPad BP-28 Brake Pads

**Category:** Inorganic 96-10

**Company Identification:**

Wilwood Engineering

4700 Calle Bolero

Camarillo, CA 93012, USA

Emergency Phone: (805) 388-1188 (Hours 7:30 am - 5:00 pm, Monday-Friday) PST

### 2) HAZARDS IDENTIFICATION:

Component	OSHA-PEL (mg/m3)	ACGIH-TLV (mg/m3)	%	CAS NO.
Calcium Fluoride	2.5	2.5	Proprietary	7789-75-5
Copper	1.0	1.0	Proprietary	7440-50-8
Zinc Oxide	5.0	5.0	Proprietary	01314-12-2
Iron	Total=15.0 Resp.=5.0	10	Proprietary	7439-89-6
Carbon	Total=15.0 Resp.=5.0	10	Proprietary	7782-42-5
Boron	10.0	10.0	Proprietary	7440-42-8
Cured Phenolic Resin	Resp. = 5.0	0.0	Proprietary	9003-35-4
Silicon Carbide	10.0	10.0	Proprietary	409-21-2

### 3) PHYSICAL CHARACTERISTICS

Boiling Point	Fe- 2800°F	Sp.Gr (H <sub>2</sub> O = 1)	7.8
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	Gray powder - odorless
Appearance / Odor	Odorless		

### 4) FIRE & EXPLOSION DATA

Flashpoint	315° C Min	Method used	Spark energy 80 millijoules
Flammabale Limits (LEL/LUL)	N/A	Special Firefighting Proc.	N/A
Auto Ignition Temperature	N/A	Extinguishing Media	Water, CO <sub>2</sub> , fog nozzles & fine spray to avoid dusting
Unusual Fire & Explosion Hazards	Fine dry iron dust exceeding minimum explosive concentration (120 oz per 1,000 cu. ft. of air) can explode in the presence of ignition source.		

## 5) REACTIVITY DATA

Stability	Stable
Incompatibility (Materials to Avoid)	N/A
Hazardous Decomposition Products	N/A
Hazardous Polymerization	Will not occur
Conditions to Avoid	None

## 6) HEALTH HAZARDS

### Effects of Overexposure:

- Iron can cause coughing, slight upper respiratory irritation, and a metallic taste in the mouth.
- Chronic exposure to carbon as graphite dust can cause fibrosis, emphysema and corpulmale.
- Zinc Oxide may cause irritation of respiratory system. Inhalation of vapors may cause irritation to mucous membranes, dryness of mouth and throat, headaches, nausea, or dizziness.
- 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. Determined by the NTP as an anticipated human carcinogen.
- Silicon Carbide may cause coughing, or shortness of breath.
- Boron may cause irritation or redness of the eyes or nose. May cause coughing or sneezing. Swallowing may cause nausea, vomiting and abdominal pain.
- Calcium fluoride dust may irritate skin or eyes. Ingestion may cause gastrointenstinal pain. Ignestion is harmful and could be fatal.

### 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** - Under normal conditions of industrial use, ingestion is not expected to occur.

## 7) SPILL / LEAK PROCEDURES

Handling, Storage	N/A
DOT Shipping Labels	N/A
Spill / Leak	Preferably wet method or vacuum clean up
Waste Disposal Methods	Check with local counsel for applicable laws / regulations



## 8) SPECIAL PROTECTION / CONTROL METHODS

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

## 9) SPECIAL PRECAUTIONS

No special precautions necessary.

### Disclaimer:

The information herein is presented in good faith and believed to be accurate as of the effective date shown on the first page of this document. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See Safety Data Sheet for health and safety information.