



SAFETY DATA SHEET

Date: June 2015

Section #1: PRODUCT AND COMPANY IDENTIFICATION

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Product Identification: Phenolic Molding Compound Powder
Product Name: METS-FINE-POW-XXXX

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS No.</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Phenol*	108-95-2	< 2	5 ppm	5 ppm
Glass Filler (respirable nuisance dust)	65997-17-3	< 10	5 mg/m ³	5 mg/m ³
Mineral Wool* (respirable nuisance dust)	65996-69-2	< 40	NE	10 mg/m ³
Fiberglass (respirable nuisance dust)	65997-17-3	< 30	5 mg/m ³	10 mg/m ³
Antimony Trioxide*	1309-64-4	< 1	0.5 mg/m ³	0.5 mg/m ³
Black Dye	8005-02-5	< 2	NE	NE
Phenolic Resin	9003-35-4	< 40	NE	NE
Hexamethylenetetramine	100-97-0	< 7	15 mg/m ³	10 mg/m ³

The remaining ingredients are not hazardous as defined in OSHA's Hazard Communication Standard 29 CFR 1910.1200.

*See Sections 3 and 11.

3. HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE:

*Phenol, formaldehyde, and ammonia vapors may be released during molding processes. Overexposure to these vapors may cause irritation to eyes, nose, throat, and skin. Sensitized individuals may experience allergic skin reactions. Exposure to dust from machining operations may cause nose and throat irritation. Fiberglass component is considered a mechanical irritant and nuisance dust.

*Antimony oxide is considered to be a suspect carcinogen by at least one of the following agencies: ACGIH, OSHA, NTP, and IARC. Two preliminary chronic inhalation studies have found an increase in benign and malignant tumors in rats exposed to concentrations of 4.2 and 50 mg/m³, 7 hours per day, 5 days per week for 12 months.

HMIS RATING:

H 1 F 1 R 1

CAS NUMBER:

NA (All components are TSCA listed.)

*IARC considers mineral wool to be possibly carcinogenic (Group 2B).

INHALATION:	Dusts and vapors may cause irritation of the respiratory tract.
EYE CONTACT:	Dusts and vapors may cause irritation.
SKIN CONTACT:	May cause irritation and/or allergic reactions in sensitized individuals.
INGESTION:	None known.
CHRONIC:	Yes
PHYSICAL HAZARDS	WARNING: Airborne dust particles may form an explosive hazard.

4. FIRST-AID MEASURES

INHALATION:	Remove to fresh air. If respiration stops, apply appropriate emergency resuscitation techniques. Get medical attention.
EYE CONTACT:	Flush eyes with water for at least 15 minutes. Call a physician if irritation persists.
SKIN CONTACT:	Wash with soap and water at first opportunity.
INGESTION:	If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other treatment directions.

5. FIRE-FIGHTING MEASURES

FLASH POINT:	NA	<u>NE</u>	LEL	<u>NE</u>	UEL
METHOD USED:	NA				
AUTOIGNITION TEMPERATURE:	Typically >550°C by Pensky-Martens method.				
EXTINGUISHING MEDIA:	<u>X</u>	Water Fog	<u>X</u>	Foam	<u>X</u> CO ₂
	<u>X</u>	Dry Chemical	<u> </u>	Other	
SPECIAL FIRE FIGHTING PROCEDURES:	Firefighters should be equipped with a self-contained breathing apparatus as decomposition in a fire may produce toxic fumes.				
UNUSUAL FIRE AND EXPLOSION HAZARDS:	CAUTION: high concentration of airborne dust may form an explosive mixture with air. Ensure that good housekeeping practices are followed, as well as applicable guidelines such as National Fire Protection Association (NFPA) 654, "Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids.				
HAZARDOUS DECOMPOSITION PRODUCTS:	May include: phenol, formaldehyde, ammonia, carbon monoxide, carbon dioxide, hydrogen cyanide, hydrogen chloride, antimony chlorides, particulate matter, and other organic compounds including benzo(a)pyrene.				

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Avoid breathing dust and vapors. PPE should be appropriate for the situation.
ENVIRONMENTAL PRECAUTIONS:	None needed.

CLEANING METHODS: Sweep or vacuum spills. To minimize dust, vacuum cleaning is preferred.

7. HANDLING AND STORAGE

HANDLING: Avoid breathing fumes from molding or other processes involving heat. Avoid breathing dusts from cutting, machining or deflashing operations. Guard against dust accumulation of this material. High concentrations of airborne dust may form explosive mixture with air. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

STORAGE: Keep container closed and sealed when not in use. Store in a cool, dry place below 77°F (25°C).

8. ENGINEERING CONTROLS/PERSONAL PROTECTION

VENTILATION

LOCAL: At points of emission to maintain exposure below regulatory action levels.

GENERAL: Ventilation should be sufficient to effectively remove and prevent buildup of any vapors, dusts, or fumes that may be generated during handling or thermal processing.

PERSONAL PROTECTION

HAND: Impervious gloves should be worn to prevent skin contact (neoprene, latex, rubber, milled nitrile, and butyl).

EYE: Wear safety glasses with side shields.

SKIN: Wear appropriate protective clothing to minimize skin contact.

OTHER: Use MSHA/NIOSH approved respiratory protection if level of air contaminants exceeds action levels set by OSHA.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Black Colored Granules

ODOR: Mild & Characteristic

PHYSICAL STATE: Solid

BOILING POINT: NA

MELTING POINT:

FREEZING POINT:

WATER SOLUBILITY: Negligible

VAPOR PRESSURE: NA

SPECIFIC GRAVITY: 1.75-1.85

PARTITION COEFFICIENT:

EXPLOSIVE PROPERTIES:

EVAPORATION RATE: NA

DENSITY:

VISCOSITY:

IGNITION:

pH: NA

10. STABILITY AND REACTIVITY

STABLE UNSTABLE

CONDITIONS TO AVOID: High temperatures.

MATERIALS TO AVOID: Strong oxidizing agents, strong acids.
HAZARDOUS POLYMERIZATION: _____ May Occur _____ X _____ Does Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS: May occur during fire or at very high temperatures. (See Section 5 for hazardous products generated.)

11. TOXICOLOGICAL INFORMATION

CARCINOGENIC HAZARDS: *Antimony oxide is listed under California's Proposition 65 as a carcinogen.
REPRODUCTIVE HAZARDS: None known

12. ECOLOGICAL INFORMATION

Based on current information, there are no special regulations.

13. DISPOSAL CONSIDERATION

ENVIRONMENTAL TOXICITY DATA: See regulatory information below.
WASTE DISPOSAL METHOD: In accordance with all local, state, and federal regulations.
CONTAINER DISPOSAL: In accordance with all local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Not regulated.
DOT HAZARD CLASSIFICATION: Non-hazardous.
PACKING GROUP: Not regulated.
UN/NA CODE: Not regulated.

15. REGULATORY INFORMATION

TSCA
(*Toxic Substances Control Act*): All ingredients are TSCA listed.

CERCLA
(*Comprehensive Emergency Response, Compensation, and Liability Act*): Release of phenol above RQ level requires reporting.

SARA TITLE III
(*Superfund Amendments and Reauthorization Act*): Release of phenol above TPQ level requires reporting.

311/312 HAZARD CATEGORIES: Release of phenol and antimony trioxide may require reporting depending on amount of compound used.

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
108-95-2	Phenol	< 2
1309-64-4	Antimony Trioxide	< 1

16. OTHER INFORMATION

NA = Not Applicable
NE = Not Established

FILE: FM4005FBIkmsds.doc

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