

Product: Phenolic Powder & Preforms

INGESTION: Irritating to mouth throat and gastrointestinal tract.

CHRONIC EFFECTS / CARCINOGENICITY: SEE SECTION 16

Section 4. First Aid Measures

INHALATION: Use with adequate ventilation. If breathing is affected, remove to fresh air. If breathing stops, apply mouth-to-mouth resuscitation. Get medical attention.

EYE CONTACT: Immediately flush eyes with copious amounts of water for at least 15 minutes. Get medical attention.

SKIN CONTACT: Wash thoroughly with soap and water.

INGESTION: If conscious, give water immediately and **induce vomiting** by placing finger down throat. Never give anything by mouth to an unconscious person. Get medical attention.

Section 5. Fire Fighting Measures

FLAMMABLE PROPERTIES:

FLASH POINT: No flash point

METHOD USED:

FLAMMABLE LIMITS

LFL: Dust .030 oz./Per cubic foot

UFL: No data

EXTINGUISHING MEDIA: Water spray, foam, dry chemical, carbon dioxide

FIRE & EXPLOSION HAZARDS: Organic dust/air mixtures are highly flammable (explosive); avoid dust accumulations or dust-laden atmospheres and sources of ignition.

FIRE FIGHTING INSTRUCTIONS: MSHA/NIOSH approved self-contained breathing apparatus recommended. Avoid inhalation of gases.

Section 6. Accidental Release Measures

Vacuum or sweep with sweeping compound, sawdust or sand. Avoid generating dust. Vacuums with explosion proof motors are recommended. This product contains free phenol which is subject to effluent limits under the clean water act.

Section 7. Handling and Storage

Store in a cool, dry place. Keep containers closed to avoid contamination. Prevent accumulations of dust. Avoid excessive heat and sources of ignition. Observe good housekeeping practices.

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Section 8. Exposure Controls / Personal Protection

ENGINEERING CONTROLS: Point source exhaust recommended to remove dust and vapors evolved during use (dust collection system). Use explosion proof motors.

RESPIRATORY PROTECTION: NIOSH approved respirators recommended if TLVS are exceeded.

SKIN PROTECTION: Gloves recommended.

EYE PROTECTION: Safety glasses with side shields.

Section 9. Physical and chemical Properties

APPEARANCE:	Granular, nodular	PHYSICAL STATE:	Pellet, briquette
BOILING POINT:	N/A	SOLUBILITY IN WATER:	Negligible
EVAPORATION RATE:	N/A	SPECIFIC GRAVITY:	See Tech data
FREEZING POINT:		VAPOR DENSITY:	N/A
MELTING POINT:		VAPOR PRESSURE:	N/A
MOLECULAR WEIGHT:		VISCOSITY:	
ODOR:	Odor of Phenol	% VOLATILE:	N/A
pH:			

Section 10. Stability and Reactivity

CHEMICAL STABILITY: Stable. Avoid contamination, exposure to flame or heat, or storage at temperatures in excess of 100 degrees F.

INCOMPATIBILITY: This product is sensitive to strong oxidizing agents and may either decompose or ignite when mixed with same.

HAZARDOUS DECOMPOSITION PRODUCTS: Vapors evolved during polymerization may contain phenol, formaldehyde, or ammonia.

HAZARDOUS POLYMERIZATION: Should not occur.

Section 11. Toxicological Information

EYE: Refer to section 16

SKIN: Refer to section 16

INGESTION: Refer to section 16

INHALATION: Refer to section 16

SUBCHRONIC: Refer to section 16

CHRONIC / CARCINOGENICITY: Refer to section 16

TERATOLOGY: Refer to section 16

REPRODUCTION: Refer to section 16

MUTAGENICITY: Refer to section 16

SENSITIZATION: Refer to section 16

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Section 12. Ecological Information

ECOTOXICOLOGICAL INFORMATION: No data

DISTRIBUTION: No data

CHEMICAL FATE INFORMATION: No data

Section 13. Disposal Considerations

Bury or incinerate in accordance with local, state, and federal regulations.

Section 14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME:	N/A
TECHNICAL SHIPPING NAME:	N/A
D.O.T. HAZARD CLASS:	N/A
U.N. / N.A. NUMBER:	N/A
PRODUCT RQ (LBS):	N/A
D.O.T. LABEL:	N/A
D.O.T. PLACARD:	N/A
FREIGHT CLASS BULK:	N/A
FREIGHT CLASS PACKAGE:	N/A
PRODUCT LABEL:	MPB5, 25,50, MPG5, 25,50, MPR5, 25,50

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA STATUS: Yes

TSCA STATUS: Yes

CERCLA REPORTABLE QUANTITY: No

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: No

SECTION 311/312 HAZARDOUS CATEGORIES: No

SECTION 313 TOXIC CHEMICALS: Yes

RCRA STATUS: Phenol amounts only to be determined by user

CALIFORNIA PROPOSITION 65: Yes

Section 16. Other Information

MSDS STATUS:

Acute or Chronic Health Hazard Information:

- Phenol:** Highly toxic. Poisoning may occur via skin absorption, vapor inhalation, or ingestion. Inhalation of the vapors may cause severe irritation to the nose, throat, and respiratory tract. May cause liver, kidney and heart damage.
- Formaldehyde:** Irritant to eyes, lungs, and skin. Has been shown to cause cancer in laboratory animals. Listed as an IARC carcinogen. California Law requires the following statement be included: Contains a chemical (formaldehyde) known to the State of California to cause cancer. National Cancer Institute study finds little evidence to connect formaldehyde exposure with cancer in humans.

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3. **Ammonia:** Irritant to eyes, mucous membranes and respiratory tract.
4. **Carbon Black:** Irritant to eyes and respiratory tracts. Exposure at high levels is associated with declines in pulmonary function and cardio vascular stress.
5. **Coal Dust:** Irritant to eyes, nose and throat. Can cause respiratory effects such as pneumoconiosis, bronchitis, emphysema and progressive massive fibrosis, with long exposure.
6. **Fibrous Glass:** Mechanical irritant to eyes, nose and skin. Can cause irritation and inflammation of the nasopharyngeal region and upper respiratory tract.
7. **Graphite:** Irritant to eyes and respiratory tracts. Can cause pneumoconiosis, although studies suggest that pneumoconiosis is a mixed dust reaction.
8. **Mica:** Irritant to eyes. OSHA believes that the evidence strongly suggests that it is a pneumoconiotic agent.
9. **Mineral Wool Fiber:** Irritant to eyes and skin. Several studies have shown excess risk of non malignant respiratory disease.
10. **Talc:** Irritant to eyes, mucous membranes and respiratory tracts. Medical evidence is complicated by the fact that talc's contain amphiboles and other minerals.
11. **Wood Flour (soft):** Irritant to eyes, mucous membranes and upper respiratory tracts. Various species of wood dust can elicit allergic contact dermatitis in sensitized individuals. May cause respiratory sensitization.

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AS USED: During polymerization (E.G., curing of the product during normal processing) or decomposition (E.F., overheating or burning of the product) small amounts of gaseous ammonia, Phenol and Formaldehyde (as well as water vapor, carbon monoxide and carbon dioxide) are evolved. Breathing of the fumes can be harmful. If the odor of ammonia or formaldehyde is noticeable, then the airborne concentration of those chemicals should be carefully monitored and ventilation improvements considered; those chemicals begin to be detectable by odor at concentrations approaching or exceeding the PELs. The odor of Phenol begins to be noticeable at a concentration about one-fifth the PEL. In any case, adequacy of ventilation can best be determined by use of instruments to monitor airborne concentrations of ammonia, phenol, and formaldehyde. Grinding or machine of cured molded material may create a dust that poses a respiratory hazard if inhaled (see above) and may release small amounts of gaseous ammonia.

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