



MATERIAL SAFETY DATA

Chemtrec 24-Hour Emergency Telephone

Domestic North America (800) 424-9300

International (800) 527-3887

This MSDS complies with 29 CFR 1910.1200 (Hazard Communications)

1. Product and Supplier Identification

Product Name: Phenolic Microspheres

Product Number: 15781, 15784, 15785, 15788, 157830

Date of Prep: 10-19-10

Product Type: Phenolic Resin

Supplier: Fiberlay Inc.
24 S. Idaho S.
Seattle, Wa 98134
(206)782-0660

2. Composition/Information On Ingredients

CAS No.	Chemical Name	% (by weight)
9003-35-4	Phenolic resin	100

3. Hazards Identification

Specific Physical Form: Hollow spheres

Odor: None

Color: Red brown

Single Exposure:

Eye:

- May cause irritation (stinging, excess blinking, tear production)
- Redness and swelling of the conjunctiva may occur

Skin: No evidence of harmful effects

Ingestion: No evidence of harmful effects

Inhalation: Short term harmful effects are not expected from vapor generated at ambient temperature

Repeated Exposure Effects:

- This material may contain trace amount (<0.001%) of free formaldehyde, which is listed by IARC, NTP and OSHA as a carcinogen
- There should be a minimal risk when adequate verification is used due to the very low formaldehyde concentration

Medical Conditions Aggravated by Overexposure:

- A knowledge of the available toxicology information and of the physical and chemical properties of the materials suggest that overexposure is unlikely to aggravate existing medical conditions.

4. First Aid Measures

Eyes:

- Immediately flush eyes with water and continue washing for 15 minutes

Skin:

- Remove contaminated clothing
- Wash skin with soap and water
- Obtain medical attention if Irritation persists
- Wash clothing before reuse

Swallowing:

- No emergency care anticipated

Inhalation:

- No emergency care anticipated

5. Fire Fighting Measures

Fire and Explosion Hazards:

- Avoid dispersion of dust in air to reduce potential of dust Ignition / explosions
- Formaldehyde and phenol may form under fire conditions

Extinguishing Media:

- Alcohol type or all purpose type foams by manufacturer's recommended technique for large fires

Extinguishing Media to be Avoided: None

Fire Fighting Instructions:

- Do not direct a solid stream of water or foam into burning molten material; may cause spattering and spread the fire
- Use self-contained breathing apparatus and protective clothing

6. Accidental Release Measures

- Wear suitable protective clothing
- Collect for disposal

7. Handling and Storage

HANDLING:

• General Precaution:

- ✓ Avoid dispersion of dust in air
- ✓ Avoid sparks and flame under dust conditions
- ✓ Use with adequate ventilation
- ✓ Electrically bond and ground all equipment
- ✓ Avoid contact with skin

STORAGE: Keep container closed

• Ventilation:

- ✓ Special local ventilation is recommended in areas where containers are opened and their contents are discharged
- ✓ Local ventilation in any other areas where dusting conditions may develop

• Other Precaution:

- ✓ May undergo spontaneous smoldering if stored or heated in bulk above 35°C under conditions allowing air ingress to the product
- ✓ Store package material in a cool, well ventilated area

• Drying Instructions:

- ✓ Reduce moisture content to less than 4%
 1. Dry a two inch layer or less at a maximum temperature of 75°C for 24 hours
 2. Cover metal drying tray with clean cloth that will allow the product moisture to evaporate, but not contaminate the oven or product
 3. Prevent dispensing of the material in the air to form dust; any finely divided organic material dispersed in air can be ignited and under some conditions, develop into dust explosion

8. Exposure Controls / Personal Protection

Exposure Limit: No exposure limit has been established

Eye Protection: Safety glasses

Skin Protection: General working gloves

Respiratory Protection: Dust respirator if dusting condition exists

Other Protective Equipment: Eye bath and safety shower

9. Physical and Chemical Properties

Boiling Point:	NA	Vapor Pressure:	NA
Specific Gravity	NA	Vapor Density:	NA
Melting Point:	NA	Spec. Physical Form	Hollow spheres
Freezing Point	NA	% Volatiles by wt	(maximum) 4 →water
Color:	Red brown	Molcular weight	> 10,000
Odor:	None	Solubility in Water:	None specified

10. Stability and Reactivity

Stability: Stable

Materials and Conditions to Avoid: None known

Incompatible Materials:

- Strong oxidizing agents
- Strong acids
- Strong alkalies
- Halogens
- Acyl halides

Hazardous Polymerization: Will not occur

Hazardous Combustion Products:

- Phenol
- Formaldehyde
- Carbon monoxide and/or carbon dioxide
 - ✓ Carbon monoxide is highly toxic if inhaled
 - ✓ Carbon dioxide in sufficient concentration can act as an asphyxiant

11. Toxicological Information

Formaldehyde has been shown to cause cancer in laboratory animals and mutations in a variety of in vitro test systems. The relevance of these findings for human is unknown. Formaldehyde is listed as a carcinogen by IARC, NTP and OSHA.

12. Ecological Information

All available ecological data have been taken into account for the development of the hazard and precautionary information contained In this Safety Data Sheet.

13. Disposal Considerations

Waste Disposal Method: Incinerate in a furnace or otherwise dispose off in accordance with appropriate National and Local regulations.

14. Transport Information

ADR/RD: This product is not submitted to the ADR regulations

Mont-Blanc: OK

IMDG: This product is not submitted to the IMO regulations

MARPOL: Annex II – Not evaluated at this time
Annex III – Not classified

ICAO: This product is not submitted to the ICAO regulations

15. Regulatory Information

- The concentrations shown are maximum or ceiling levels (weights %) to be used for calculations for regulations. Trade secrets are indicated by "TS".
- **Comprehensive Environmental Response Concentration and Liability Act of 1980 (CERCLA):** requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reported quantities (RQs) in CFR 302.4
 - ✓ Component in this product at a level which could require reporting under the statute is: NONE
- **Superfunds Amendment and Reauthorization Act of 1986 (SARA) Title III:** requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 02, 304, 311, and 312).
 - ✓ Component in this product at a level which could require reporting under the statute is: NONE
- **Superfunds Amendment and Reauthorization Act of 1986 (SARA) Title III:** requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 31 3). This information must be included in all MSDS that are copied and distributed for this material.
 - ✓ Component in this product at a level which could require reporting under the statute is: NONE
- **Toxic Substance Control Acts (TSCA) status:**
 - ✓ The ingredients of this product are on the TSCA inventory
- **State Right-to-Know:**
 - ✓ California Proposition 65: This product contains trace quantities of formaldehyde, which in the State of California has found to cause cancer.
 - ✓ Massachusetts: Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Component present in this product which could require reporting under the statute are:

EXTRAORDINARILY HAZARDOUS SUBSTANCES (= or >0.0001%)

CHEMICAL	CAS NUMBER	UPPER BOUND CONCENTRATION %
Phenol	108-95-2	0.01
Formaldehyde	50-00-0	0.001

- ✓ Pennsylvania: Hazardous Substances and Special Hazardous Substances on the List must be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

SPECIAL HAZARDOUS SUBSTANCES (= or >0.01%)

CHEMICAL	CAS NUMBER	UPPER BOUND CONCENTRATION %
Phenol	108-95-2	0.01

- ✓ California SCAQMD RULE: None

16. Other Information

Preparation Date: 10-19-2010

Prepared by: Fiberlay Inc

Comments: This Material Safety Data Sheet was prepared using information provided by Asia Pacific Microspheres SDN BHD, Fiberlay Inc, and CCINFO

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Revisions: None