

MATERIAL SAFETY DATA SHEET

Section 1. Product and Company Information

MANUFACTURER: Freecom, Inc.
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SUPERCEDES MSDS DATED: August 19, 1999

PRODUCT NAME: CeRam-Floor - Universal Resin - Part A



UNIVERSAL RESIN – PART A

Section 2. Composition and Ingredient Information

Common Name	Chemical Name	CAS Number	Weight %
Epoxy Resin	Phenol, 4,4'-(1-methylethylidene) bis-, polymer with (chloromethyl) oxirane	25068-38-6	80 – 90
Epoxy Resin Modifier	2-Ethyl Hexyl Glycidyl Ether	2461-15-6	10 – 20

Exposure Limits

INGREDIENT	OSHA PEL (8-HR TWA)	ACGIH TLV (8-HR TWA)
Epoxy Resin	N/E	N/E
Epoxy Resin Modifier	NE	N/E

Section 3. Physical Data

Description	CeRam-Floor Part A
Specific Gravity (kg/l)	1.10
Boiling Point	>200°C (392°F)
Vapor Density (Air = 1)	> Air
Solubility in Water	Slight (<0.8%)
pH	No data
Appearance and odor	Colorless, Slight irritating odor
Density (on average)	9.9 lbs.
Total Volatiles	0
Non-Volatiles	100
VOC content	0

Section 4. Fire Fighting Measures

Description	CeRam--Floor Part A
Flashpoint	>93.3°C (199.99°F)
Flammable Limits	LFL: No data UFL: No data
Auto Ignition Temperature	No data
Extinguishing Media	Foam, CO ₂ , water spray, or dry chemical
Unusual Fire and Explosion Hazards	May generate toxic or irritating combustion products. Sudden reaction and fire may result if product is mixed with an oxidizing agent. May generate carbon monoxide gas. Personnel in vicinity and downwind should be evacuated.
Fire Fighting Instructions	Treat as a flammable liquid type fire. In a sustained fire wear self-contained breathing apparatus and full protective bunker turnout gear.

Section 5. Reactivity Data

Description	CeRam-Floor Part A
Stability	Stable
Incompatibility	Strong oxidizing agents (i.e. perchlorates, nitrates, etc.). Sodium or Calcium Hypochlorite. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.
Hazardous Decomposition Products	Carbon Monoxide, Carbon Dioxide, aldehydes
Hazardous Polymerization	Will not occur.

Section 6. Health and Safety

Description	CeRam-Floor Part A
Primary Routes of Exposure	Inhalation, skin, eye
Potential Health Effects	Acute (short term): Inhalation of mists may cause irritation in the respiratory tract. Inhalation of vapors may cause irritation in the respiratory tract. Contact with the skin or eyes causes moderate eye and skin irritation, redness and discomfort which is transient. Coughing and chest pain may result. Chronic (long term): Prolonged or repeated skin contact may result in irritation, dermatitis marked by rough, dry cracking skin. Contact with the epoxy resin may cause sensitization. Repeated and/or prolonged exposures may result in: adverse respiratory effects (such as cough, tightness of chest or shortness of breath), adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion).
Medical Conditions Aggravated by Exposure	Asthma, chronic respiratory disease (i.e. Bronchitis, Emphysema), Eye disease, skin disorders and allergies.

Section 7. First Aid Measures

Description	CeRam-Floor Part A
Inhalation	Remove individual to fresh air. If breathing is difficult, administer oxygen and obtain medical aid.
Eyes	Flush with running water for at least 15 minutes. Seek medical attention.
Skin	Wash with flowing water. Remove contaminated clothing and launder before re-wearing. If irritation persists, seek medical attention.
Ingestion	DO NOT induce vomiting. Give at least 3 – 4 glasses of water. If vomiting occurs, give water again. Do not give anything by mouth to an unconscious person. Get medical attention. Have physician determine whether vomiting or stomach evacuation is necessary.

Section 8. Exposure Controls and Personal Protection

Description	CeRam-Floor Part A
Engineering controls	General dilution ventilation and/or exhaust ventilation should be provided as necessary to maintain exposures below regulatory limits.
Respiratory Protection	Organic chemical cartridge respirator, if needed.
Dermal Protection	Loose fitting long sleeved shirt, long pants and chemical resistant gloves such as neoprene or natural rubber gloves.
Eye Protection	Chemical protective goggles.

Section 9. Accidental Release Measures

Description	CeRam-Floor Part A
Disposal Considerations	Dispose in accordance with federal, state and local regulations.
Containment Techniques (Removal of ignition sources, diking etc.)	Shut off or remove all ignition sources. Stop the leak, if possible. Construct a dike to prevent spreading (includes molten liquids until they freeze).
Clean-Up Procedures	If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Place in metal containers for recovery or disposal. Flush area with water spray. Clean-up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

Section 10. Transport Information

Description	CeRam-Floor Part A
DOT/IATA/IMDG Shipping Names	Resin Compound – Not regulated

Section 11. Regulatory Information

Description	CeRam-Floor Part A
OSHA Hazard Communication Standard (29CFR1910.1200)	Irritant. Sensitizer
TSCA Status – Section 8(b) - Inventory Status	All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
TSCA Status – Section 12(b) - Export Notification	This product contains chemical(s) which is (are) regulated by TSCA 12(b) Regulation and it is required that proper export notification shall be sent to EPA prior to shipping out of the United States of America CAS Number: 1675-54-3 Chemical Name: Bisphenol A Diglycidyl Ether
Resource Conservation and Recovery Act (RCRA)	Not a hazardous waste under RCRA (40 CFR 261)
Canadian Inventory Status	All components included on the Domestic Substances List (DSL)
New Jersey Right-to-Know	The following is required composition information: CAS Number: 25068-38-6 Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl) oxirane
Pennsylvania Right-To-Know	The following is required composition information: CAS Number: 25068-38-6 Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl) oxirane Common Name: Bisphenol A Epoxy Resin Comment: Not on Pennsylvania Hazardous Substance List