

MATERIAL SAFETY DATA SHEET

1. Product Information

Product Name: ESP 155 A Resin Product Class: Low Viscosity Epoxy Product Code: CG070-A

2. Composition/Information on Ingredients

Chemical Name	CAS Number	Weight Percent	Occup. Exposure Limits OSHA PEL ACGIH TLV	Vapor Pressure mm Hg and Temp. F
Liquid Epoxy Resin	25068-38-6	70-80	N/E	N/E (Not established)
*Toluene	108-88-3	20-26	100 ppm 100 ppm	22 68

*Indicates toxic chemical(s) subject to reporting requirements of Section 313 of Title III and of 40 CFR 372.

3. Physical Data

Boiling Range (Deg. F): 232°F Vapor Density: Heavier than air Evaporation Rate: Slower than Ether Percent Volatile By Volume: 25
Weight Per Gallon (lbs.): 9.0 ± .1

4. Fire and Explosion Hazard Data

Flash Point (Deg.F): 45° Lower Explosive Limit: 1.2 Extinguishing Media: Foam, alcohol foam, CO2, dry chemical
OSHA Flammability Classification: Combustible Liquid IB Special Firefighting Procedures: Wear a NIOSH/MSHA approved self contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool. Water may be ineffective as an extinguishing agent.
Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation to ignition sources at locations distant from material handling point. Pressure may build up in containers and create an explosion hazard.

5. Health Hazard Data

THIS PRODUCT IS FLAMMABLE. **Effects of Overexposure:** **Eyes:** Irritation, burning, tearing and redness. **Skin:** Moderately irritating or defatting of skin upon prolonged or repeated contact. **Ingestion:** Abdominal pain, nausea, vomiting and diarrhea. **Inhalation:** Excessive exposure to vapors can cause headache, dizziness, incoordination, nausea and loss of consciousness.
Emergency and First Aid Procedures: **Eyes:** Flush with water for 15 minutes. **Skin:** Remove contaminated clothing, wash skin with soap and water.
Ingestion: DO NOT induce vomiting. Get medical immediately. **Inhalation:** Move to fresh air, aid breathing if necessary.
In all cases, consult a physician for best treatment. Chemical listed as carcinogen or potential carcinogen: NTP: No IARC: No OSHA: No

6. Reactivity Data

Stability: Product Stable **Conditions to Avoid:** All sources of ignition **Incompatibility (Materials to avoid):** Oxidizing agents, strong acids and bases.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides and organic compounds. **Hazardous Polymerization:** Will not occur.

7. Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Dike spill area. Absorb spill with inert absorbent material. Place in sealed metal containers for proper disposal. Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

8. Special Protection Information

Respiratory Protection: Use a NIOSH/MSHA jointly approved respirator **Ventilation:** Use mechanical ventilation **Protective Gloves:** Neoprene or rubber **Eye Protection:** Chemical splash goggles **Other Protective Equipment:** Protective clothing, barrier cream, eye bath, safety shower.

9. Special Precautions

Precautions to be taken in handling and storing: Store in dry area. Keep away from open flames and high temperatures. Other precautions: Minimize contact. Avoid breathing vapors. Practice good industrial hygiene and safe working practices.

10. Transportation Information and Regulatory Information

H.M.I.S. Codes:: Health - 2, Flammability - 3, Reactivity - 0

MATERIAL SAFETY DATA SHEET

1. Product Information

Product Name: ESP 155 Hardener Part B Product Class: Epoxy Hardener Product Code: CG070-B

2. Composition/Information on Ingredients

Chemical Name	CAS Number	Weight Percent	Occup. Exposure Limits		Vapor Pressure	
			OSHA PEL	ACGIH TLV	mm Hg	and Temp. F
Cycloaliphatic Polyamines	Mixture	30-40	N/E		N/E	(Not established)
*Toluene	108-88-3	20-28	100 ppm	100ppm	22	68
Nonyl Phenol	25154-52-3	30-40	N/E		1	68

* indicates toxic chemical(s) subject to reporting requirements of Section 313 of Title III and of 40 CFR 372.

3. Physical Data

Boiling Range (Deg. F): 230°F Vapor Density: Heavier than air Evaporation Rate: Slower than ether Percent Volatile By Volume: 27
Weight Per Gallon (lbs): 7.85 ± .2

4. Fire and Explosion Hazard Data

Flash Point (Deg. F) 45° Lower Explosive Limit: 1.2 Extinguishing Media: Foam, alcohol foam, CO2, dry chemical OSHA

Flammability Classification: Flammable Liquid IB

Special Firefighting Procedures: Wear a NIOSH/MSHA approved self contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool. Water may be ineffective as an extinguishing agent. Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation to ignition sources at locations distant from material handling point. Pressure may build up in containers and create an explosion hazard.

5. Health Hazard Data

THIS PRODUCT IS CORROSIVE Effects of Overexposure: Eyes: Irritation, burning, tearing, and redness. Skin: Moderate irritation or defatting of skin upon prolonged or repeated contact. Ingestion: Abdominal pain, nausea, vomiting, and diarrhea. Inhalation: Excessive exposure to vapors can cause headache, dizziness, incoordination, nausea and loss of consciousness. Emergency and First Aid Procedures: Eyes: Flush with water for 15 minutes. Skin : Remove contaminated clothing, wash skin with soap and water. Ingestion: DO NOT induce vomiting. Get medical treatment immediately. Inhalation: Move to fresh air, aid breathing if necessary. In all cases, consult a physician for best treatment.

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10. Transportation Information and Regulatory Information

H.M.I.S. Codes:: Health - 3, Flammability - 3, Reactivity - 0

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Manufactured by: GCPM in AL

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