MATERIAL SAFETY DATA SHEET

1. Product Information

Product Name: Low V Floor Epoxy Part A Resin Chemical Family: Epoxy Resin Product Code: ER045-A

2. Composition/Information on Ingredients

Chemical Name	CAS Number	Percent
Bisphenol-A, epicholorohydrin	25068-38-6	100

Specific ingredients of this product are withheld and considered a trade secret.

3. Acute Toxicity Data

No. Acute Oral LD50 Acute Dermal LD50 Acute Inhalation LD50 No specific information is available

4. Health Hazard Data

Eye Contact: Moderately irritating to the eyes. **Skin Contact:** Moderately irritating to the skin, possible skin sensitization. **Inhalation:** Not considered a inhalation hazard. **Ingestion:** Considered to have a low order of acute toxicity. **Carcinogenicity:** Not classified as a carcinogen.

5. Emergency First Aid Procedures

Eye Contact: Flush eyes with plenty of water. Get medical attention. **Skin Contact:** Remove contaminated clothing. Wash with soap and water. If irritation occurs, get medical attention. **Inhalation:** Provide fresh air. Provide oxygen if breathing is difficult. **Ingestion**: Do not induce vomiting. In general, no treatment is necessary unless large quantities are ingested. However, get medical advice.

6. Physical Data

Boiling Point: >500 deg. F. Melting Point: Not applicable. Specific Gravity: 1.15 Vapor Density (Air=1): Not applicable Vapor Pressure (mm/Hg): <1.0 Solubility in Water: Negligible Evaporation Rate (N-butyl Acetate =1): Not applicable Appearance and Odor: Clear, low viscosity liquid with mild odor.

7. Fire and Explosion Hazards

Flash Point: 485 deg. F. PMCC. **Flammable Limits/%** Lower: Not determined. Upper: Not determined.
Extinguishing media: Use form, dry chemical, or CO2. **Fire Fighting Procedures and Precautions**: Do not enter confined fire space without full protective clothing (helmet with face shield, gloves and rubber boots), including NIOSH approved self contained breathing apparatus. **Fire and Explosion Hazards**: None known.

8. Stability and Reactivity

Stability: Stable. **Hazardous Polymerization**: Will not occur. **Conditions to Avoid:** Heating to high temperatures. **Materials to Avoid:** Strong oxidizing agents, strong Lewis or mineral acids, and strong organic bases, especially primary and secondary aliphatic amines. **Hazardous Decomposition Products**: Carbon monoxide, aldehydes, acids, and other organic substances may be formed during combustion.

9. Employee Protection

Precautions in Storage and Handling: Store at room temperature. **Ventilation**: General ventilation is usually adequate. **Respiratory Protection**: Not ordinarily required. **Skin Protection:** Rubber gloves and clothing impervious to this material. **Eye Protection:** Safety glasses, chemical goggles, or face plate.

10. Environmental Protection

Spill or Leak Procedures: Prevent all bodily contact with spilled materials. Wear appropriate protective clothing. Eliminate potential fire hazards. dike spill and absorb with an inert material such as clay or sand, and collect in a non-leaking container. Flush area with water to remove last traces of residue. Dispose of flush solutions by absorption as above. **Waste Disposal Method:** Do not dump into sewers or into any body of water. Incinerate in an approved incinerator, or dispose of in a chemical dump in accordance with Federal, State, and local regulations.

11. Transportation Requirements

The D.O.T. information in this section is based on an evaluation of the product against the requirements of 49 CFR 172 and 173 as revised.
DOT Proper Shipping Name: Not regulated. DOT Hazard Class: N/A DOT Labeling: N/A Packing Group: N/A UN/NA#: N/A

12. Regulatory Information

NOTICE: The information presented herein is based on the data available to us and is believed to be correct as of the date prepared. However, no liability whatsoever is assumed. It is the buyer's responsibility to determine the suitability of the product and the results obtained from its use. The manufacturer assumes no responsibility for injury resulting from the use of the product described herein.

date of prepn: 5/20/98 Manufactured by: ERC in RI
Distributed by: Progressive Epoxy Polymers - 48 Wildwood Drive - Pittsfield, NH 03263 - Tel: 603-435-7199 - Fax: 603-435-7182

MATERIAL SAFETY DATA SHEET

1. Product Information

Product Name: Low V Floor ™ Hardener Part B Chemical Family: Aliphatic Amine Product Code: ER045-B

2. Composition/Information on Ingredients

			Exposure Limits	
			ACGIH	OSHA
Chemical Name	**CAS**	**Percent**	**TLV-TWA**	**PEL**
Amine Adduct	78-59-1	<50	N/E	N/E (Not established)
Polyglycol Diamine	9046-10-0	10-30	N/E	N/E
Nonyl Phenol	25154-52-3	>40	N/E	N/E

3. Health Hazards

Eye Contact: Cause severe irritation and may cause burn. **Skin Contact:** Cause irritation and sensitization. Symptoms can be immediate or delayed several hours. **Inhalation:** Can cause respiratory tract irritation. **Ingestion:** Can cause nausea, headache, and gastrointestinal irritation. **Other:** Preexisting skin sensitization may be aggravated by exposure to this product.

4. First Aid Measures

Eyes: Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Seek medical attention. **Skin:** Remove contaminated clothing. Wipe excess from skin and wash the affected area thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. **Inhalation:** Remove to fresh air, and provide oxygen or artificial respiration if needed. Obtain medical attention; symptoms can be delayed up to several hours. **Ingestion:** DO NOT induce vomiting. Give 1-2 cups of water or milk unless the person is drowsy, convulsing, or unconscious. Get medical attention.

5. Fire Fighting Measures

Flash Point: >200˚F (PMCC) **Explosive Limits:** Not applicable **Auto-Ignition Temperature**: Not applicable **Hazardous Decomposition Products**: Oxides of nitrogen, carbon monoxide, carbon dioxide and other organic materials **Extinguishing media:** Use carbon dioxide, dry chemical, or appropriate foam. Extinguishing Media and Fire Fighting Instructions: When sufficiently large quantities are present, firefighters should be equipped with full bunker gear, including a positive pressure, NIOSH approved, self-contained breathing apparatus. Extreme heat or water contamination may cause closed containers to explode.

6. Accidental Release Measures

Ventilate the spill area and evacuate if necessary. Remove all ignition sources. Dike and contain large spills. Flush area with water spray. Clean-up personnel should use adequate protective equipment. .

7. Handling and Storage

Store in a cool; dry place, in closed containers at room temperature. Avoid contact with incompatible materials. Wear protective eyewear, chemical-resistant gloves, and other protective clothing as appropriate.

8. Exposure Control and Personal Protection

Engineering/Ventilation Controls: Effective engineering controls should be used whenever possible to eliminate and/or reduce worker exposure to all respiratory hazards. General ventilation, local ventilation, or isolation may prove adequate to keep airborne concentrations below exposure limits. **Respiratory Protection:** If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained breathing apparatus is required. **Skin Protection:** Impervious gloves and protective clothing should be worn as necessary. **Eye Protection:** Chemical splash goggles or safety glasses with side shields should be worn as appropriate.

9. Stability and Reactivity

Chemical Stability: Stable under normal conditions and use. **Conditions and Materials to Avoid:** Reacts with epoxy and strong oxidizing agents. **Hazardous Polymerization:** Will not occur

10. Physical and Chemical Properties

Appearance/Odor: Clear Liquid, ammoniacal odor **Boiling Point:** Not determined **Vapor Pressure (mm Hg):** <1 @ 25˚C **Vapor Density (air=1):** >1 **Specific Gravity:** 0.96 **Solubility in Water**: Slightly soluble

11. Toxicological Information

Acute Toxicity Data: Not available Chronic Toxicity Data: Not available

12. Disposal Considerations

Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the environment occurs or is likely to occur. Utilize an appropriate disposal facility, in compliance with applicable federal, state, and local environmental control regulations.

13. Transportation and Regulatory Information

DOT/IATA Proper Shipping Name: Amines, Liquid, Corrosive, NOS (Aliphatic Amine) Hazard Class: 8 UN: 2735 PG: III Label: Corrosive

14. Regulatory Information

TSDCA: The chemical components of this product are included in the TSCA Chemical Substance Inventory, as required. SARA TITLE III: Section 313 - Toxic Chemicals: None Section 311/312 - Hazard Categories: Fire Hazard - No, Reactivity Hazard - No, Sudden Releae of Pressure Hazard - No, Immediate (Acute) Health Hazard - Yes, Delayed (Chronic) Health Hazard - No. OSHA Hazard Communication Standard Hazard Classes: Corrosive NFPA Hazards: Health - 3, Flammability - 1, Reactivity - 0 HMIS hazards: Health - 3, Flammability - 1, Reactivity - 0

date of prepn: 1/15/03 Manufactured by: ERC in RI

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