

MATERIAL SAFETY DATA SHEET

FOR CHEMICAL
EMERGENCY
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Issue Date: 1/3/12 Supercedes: 11/3/10

SECTION I - Product Identification: FIVE STAR® LV ADHESIVE

SECTION II - Hazardous Ingredients/Identify Information

PRODUCT CLASS: Epoxy
FORMULATION IDENTIFICATION: Adhesive

<u>COMPONENT A:</u>	<u>C.A.S. No.:</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>	<u>Approx. %:</u>
Modified Bisphenol A/ Epiclorohydrin Base Epoxy Resin	25068-38-6	NE	NA	>75%
Aliphatic Glycidyl Ether	2461-15-6	NE	NE	<25%

COMPONENT B:

Trade secret Amine Blend containing one or more of the following:

<u>C.A.S. No.:</u>	<u>Approx. %</u>
84852-15-3	
140-31-8	>85%
9046-10-0	
64742-94-5	<10%
2,4,6 Tri(dimethylaminomethyl)phenol 90-72-2	<8%

None of the remaining components are considered a hazardous material or carcinogen (1910.1200 Hazard Communication (d) 4)

TRANSPORTATION INFORMATION:

DOT Classification: Amines, Liquid, Corrosive, n.o.s. (aminopropyl-diethanolamine); UN2735, Hazard Class 8, Packing Group III.

SECTION III: - Physical/Chemical Characteristics

<u>Boiling Point</u> (°F): N/E	<u>Specific Gravity</u> (H ₂ O = 1): A: 1.095	B: 0.970
<u>Vapor Pressure</u> (mm Hg.): N/E	<u>Melting Point</u> (°F): N/E	
<u>Vapor Density</u> : (AIR = 1): >1	<u>Evaporation Rate</u> : (Ether = 1) >1	
<u>Solubility in Water</u> : Insoluble	<u>Appearance and Odor</u> : A: Yellow liquid, mild odor. B: Amber liquid, strong odor.	

SECTION IV - Fire and Explosion Hazard Data

Flash Point: >200° F. Flammable Limits: LEL: N/A. UEL: N/A. Extinguishing Media: Foam, CO₂, Water Fog. Special Fire Fighting Procedures: None. Unusual Fire and Explosion Hazards: None. Avoid breathing smoke.

SECTION V - Reactivity Data

Stability: Unstable: () Stable: (X)

Conditions to Avoid: None. Incompatibility (Materials to Avoid): Strong oxidizers, strong bases.

Hazardous Decomposition or Byproducts: CO, CO₂, NOX. Hazardous Polymerization: None Conditions to Avoid: Fires when curing.

SECTION VI - Health Hazard Data

Carcinogenicity: Unrelated NTP? No. IARC? No. OSHA Regulated? No.

Effects and Hazards of Overexposure (Acute and Chronic): Eyes: May produce irritation, sensitization. Skin: May produce irritation, sensitization. Inhalation (breathing): May produce irritation, sensitization. Ingestion (swallowing): May produce irritation, sensitization.

EMERGENCY AND FIRST AID PROCEDURES:

Remove any contaminated clothing. Eyes: Flush immediately with large amounts of water for at least 15 minutes; contact physician immediately. Skin: Remove epoxy from skin immediately with a dry cloth or paper towel. Wash area of contact thoroughly with soap and water. SOLVENTS SHOULD NOT BE USED because they carry the irritant into the skin. Inhalation: If respiratory irritation occurs, go to fresh air. Flood work area with fresh air. If irritation continues, seek medical attention. Ingestion: Not expected. Contact medical help immediately. Untrained first aid personnel should not attempt to administer first aid. Contaminated clothing should be washed prior to re-use.

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SECTION VII - Spill or Leak Procedures

Steps To Be Taken in Case Material is Leaked or Spilled: Bind with absorbent material. Waste Disposal Method: Small Spill: Per local, state and federal regulations.

SECTION VIII - Safe Handling and Use Information

Respiratory Protection: Respiratory protection is required when ventilation is inadequate. NIOSH/MSHA approved respirators should be provided and worn. All workers required to use respiratory protection should be trained in their proper selection, use and care. A written respirator program is outlined in 29 CFR 1910.134, and is required by OSHA. Ventilation (Local Exhaust): Recommended. Mechanical (General): Recommended. Special: Recommended; when local and mechanical ventilation is not adequate. Other: N/E. Protective Gloves: Recommended. Eye Protection: Recommended. Other Protective Equipment: Recommended; splash bib with protective clothing. Work/Hygienic Practices: Remove and wash contaminated clothing. As with all commercial and industrial products, always wash hands before eating or smoking.

SECTION IX- Special Precautions

Precautions to be taken in handling: Store in a cool, dry location. Do not allow the material to freeze, as product may be damaged. Store away from sparks and open flame.

Other precautions: None.

N/A: Not available. N/E: Not established.