

MATERIAL SAFETY DATA SHEET

FIVE STAR PRODUCTS, INC.

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Issue Date: 6/15/12 Supercedes: 1/3/12

FOR CHEMICAL
EMERGENCY
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1-813-248-0585

SECTION I - Product Identification: FIVE STAR® BONDING ADHESIVE

SECTION II - Hazardous Ingredients/Identify Information

PRODUCT CLASS: Epoxy

FORMULATION IDENTIFICATION: Adhesive

Hazardous Components: Specific Chemical Identity:

<u>COMPONENT A:</u>	<u>C.A.S. No.:</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>	<u>Approx. %:</u>
Modified Bisphenol A/ Epichlorohydrin Base Epoxy Resin	25068386	NE	NE	>85%
Alkyl Ether Epoxide	2461156	5 mg/m ³	5 mg/m ³	<10%
Pigment	TS	15 mg/m ³	15 mg/m ³	<5%

COMPONENT B:

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

	694837	NE	NE	>95%
	68411905	NE	NE	
	84852153	NE	NE	
2,4,6- Tri(dimethylaminomethyl)phenol	90-72-2	10mg/m ³	5mg/m ³	<5%

None of the remaining components are considered a Hazardous Material or carcinogen (1910.1200 Hazard Communication (d) 4).

NA: Not available. NE: Not established.

SECTION III: - Physical/Chemical Characteristics

<u>Boiling Point</u> (°F): N/E	<u>Specific Gravity</u> (H ₂ O = 1):	A: 1.14	B: 1.01
<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: Grey liquid.	B: Amber, characteristic 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 acids, strong bases.

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

SECTION VI - Health Hazard Data

Carcinogenicity: No. 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:

Eyes: Contact a physician immediately. Skin: Wash with mild soap and water. Hand cream should be used to prevent dry skin. If skin irritation, reddening, or a rash occur, seek medical attention. Inhalation: If respiratory irritation occurs, go to fresh air. Flood work area with fresh air and if irritation continues, seek medical attention. Ingestion: Contact medical help immediately. Untrained first aid personnel should not attempt to administer first aid.

"This information is furnished without warranty of any kind, expressed or implied. Five Star Products, Inc. bases the information and recommendations in this document on data believed to be current and accurate."

SECTION VII – Precautions for Safe Handling and Use

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.

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 – Control Measures

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- U.S. Federal Regulations

Component B: One or more ingredients of this product are included in the EPA Toxic Substances Control Act(TSCA) Chemical Substance Inventory. OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es). Corrosive, toxic by skin absorption and ingestion. EPA SARA Title III Section 312 (40CFR370) hazard class - Immediate Health Hazard. EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimis" level are None.

SECTION X- Transportation Information

DOT PROPER SHIPPING NAME(Component B): Amines, Liquid, Corrosive, n.o.s. (aminopropyl-diethanolamine); Hazard Class 8, UN 2735; Packing Group III. Component A is DOT unregulated.

SECTION XI – State Regulations

PROPOSITION 65 SUBSTANCE(S) listed by the state of California under the "Safe Drinking Water and Toxic Enforcement Act of 1986." None

SECTION XII – International Regulations

EUROPEAN ECONOMIC COMMUNITY (EEC) EINICS MASTER INVENTORY Polymeric substance; monomers included on Inventory

EEC SYMBOL CORROSIVE (C) EEC COUNCIL DIRECTIVES RELATING TO THE CLASSIFICATION, PACKAGING AND LABELING OF DANGEROUS SUBSTANCES AND PREPARATIONS RISK (R) AND SAFETY (S) PHRASES

Harmful if contact with skin and if swallowed (R21/22). Causes burns (R34). Avoid contact with skin, eyes and clothing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). Wear suitable protective clothing, gloves and eye/face protection (S36/37/39).

IMO SHIPPING DATA(Component B): Amines, liquid, corrosive, N.O.S., (aminopropyl-diethanolamine), Class 8, UN2735; IMDG CODE PAGE: 8109-2, Packaging Group III.

ICAO/IATA SHIPPING DATA(Component B): Amines, liquid, corrosive, N.O.S., (aminopropyl-diethanolamine), Class 8; UN2735; Packaging Group III.

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