

Hi-Tech Flex Gel

Material Safety Data Sheet

IDENTITY

As used on label and list: HI TECH FLEX GEL

SECTION I

Manufacturers Name: Hi-Tech Epoxy Systems Emergency Contact: (800) 454-5530
9070 Center Avenue Date Prepared: 12/05/05
Rancho Cucamonga, CA 91730
Prepared by: Technical Services

SECTION II – Hazardous Ingredients/Identity Information:

Product Class: Epoxy
Formulation Identification: Adhesive
Chemical Family: Aminopropyl diethanolamine
Synonyms: Amines Liquid Corrosive

Emergency Telephone No.: Chemtrec 1-800-424-9300 24hrs.

COMPONENT A:

	Base epoxy resin	
25068386	Modified Bisphenol A	>60%
14807966	Talc	<20%
1317653	Coated Precipitated Calcium Carbonate	<10%
1314132	Zinc Oxide	<10%

COMPONENT B:

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

694837	<50%
143237	
140318	
100516	

SECTION III – Health Hazard Data:

Target Organs: None known.
Eyes: May produce irritation, sensitization, and may lead to eye damage.
Skin: May produce irritation and dermatitis.
Inhalation: May produce irritation to nose and throat.
(breathing)
Ingestion: May produce irritation of the mouth, stomach and sensitization.
(swallowing)

	OSHA PEL	ACGUH TLV
COMPONENT A		
25068386	NE	NA
14807966	5 mg/m ³	5 mg/m ³
1317653	5 mg/m ³	10 mg/m ³
1314132	5 mg/m ³	5 mg/m ³
98555	NE	NA
COMPONENT B		
694837	NE	NE
143237	NE	NE
140318	NE	NE
100516	NE	NE
NE	NE	NE

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

SECTION IV – First Aid Measures:

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.

SECTION V – Fire and Explosion Hazard Data:

- Flash Point: >200°F
- Flash Point Method: Pensky Martens Closed Cup Method
- Burning Rate: No data available
- Autoignition Temperature: No data available
- LEL: N/A
- UEL: N/A
- Other:

Special Fire Fighting Procedures: None. Avoid breathing smoke. NFPA Class B-C fire extinguisher (dry chemical or foam) for class 1c fires. Water spray may be ineffective on fire but can protect fire-fighters and cool closed containers. Use fog nozzles if water is used. Use supplied breathing masks.

SECTION VI – Spill or Leak Procedures:

SMALL SPILLS: Bind with absorbent material, (sand, vermiculite, etc.). Sweep or scoop up and put into disposal containers. Flush area immediately with water (prevent water from entering waterways).

LARGE SPILLS: Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Clean-up: Bind with absorbent material, (sand, vermiculite, etc.). Sweep or scoop up and put into disposal containers. Flush area immediately with water (prevent water from entering waterways).

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area or until spill clean-up has been completed.

SECTION VII – Handling and Storage:

Precautions to be taken in handling: For professional use only. Avoid eye/skin contact. Wash after using and before eating or smoking. Avoid breathing vapors. Use as directed. Avoid uncontrolled mixing with other mixtures (strong acids, bases and oxidizers). Respiratory protection is required when ventilation is inadequate. NIOSH/OSHA approved respirators should be provided and worn.

Storage Requirements: 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.

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
- Ventilation (Mechanical-General): Recommended
- Ventilation (Special): Recommended; when local and mechanical ventilation is not adequate.
- Ventilation (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 – Physical/Chemical Characteristics:

Boiling Point: Degrees F.	ND
Specific Gravity:	A: 1.25 B: 1.10
Vapor Pressure (mm Hg):	N/E
Melting Point	N/E
Vapor Density (Air = 1):	>1
pH:	ND
Evaporation Rate:	Slower than Butyl Acetate
Solubility:	Insoluble
Appearance and Odor:	A: White gel, mild odor B: Dark Gray gel, distinctive amine
Viscosity:	Gel
Percent Volatile:	0
VOC:	0

SECTION X – Reactivity Data:

Stability:	Stable
Conditions to avoid:	Fires during curing process
Incompatibility (Materials to avoid):	Strong Oxidizers, acids and bases
Hazardous Decomposition or Byproducts:	CO, CO2, NOX
Hazardous Polymerization:	None

SECTION XI – Toxicological Information:

No data available.

SECTION XII – Ecological Information:

No data available.

SECTION XIII – Disposal Considerations:

When disposed of properly, this material does not meet RCRA classification or listing for hazardous waste. Never dispose of a liquid to a landfill. Spilled material should be stabilized or solidified prior to disposal. Once stabilized/solidified, the material may be disposed of through normal means. Certain localities and state laws have specific disposal requirements for non-hazardous industrial chemicals. Consult municipal authorities, landfill personnel, disposal companies for details prior to any disposal activity. Always follow local, state and federal regulations.

SECTION XIV – Transport Information:

Shipping Name: Amines Liquid Corrosive, N.O.S. (aminopropyl diethanolamine) UN2735, Class 8 Corrosive, PGIII.
Placards required over 1,000 lbs.

SECTION XV – Regulatory Information:

This MSDS has been prepared in accordance with federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
HMIS Codes: Health(3) Flammability(1) Reactivity(1) PPE(H)

SECTION XIV – Transport Information:

Although the information and recommendations set forth herein (hereinafter “information”) are presented in good faith and believed to be correct as of the date hereof, Hi-Tech makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will Hi-Tech be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties either express or implied of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers.