

MATERIAL/CHEMICAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Details

Product Name: EpoxySet Resin - Part A

Allied Item No.: 145-20000, -20005,
-20015, -20025

Chemical Name: Modified Bisphenol A
- Epichlorohydrin based Epoxy

Company Identification

Allied High Tech Products, Inc.
2376 East Pacifica Place
Rancho Dominguez, CA 90220
(310) 635-2466

Contact Point

Transportation for United States
Chemtrec (800) 424-9300 * (202) 483-7616

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Exposure Limits in Air		Carcin. Y/N
		ACGIH TLV or TWA	OSHA PEL	
Bisphenol A/ Epichlorohydrin Resin 85-90%	25068-38-6	NE	NE	
N-Butyl Glycidyl Ether <15%	2426-08-06	25 ppm	25 ppm	

Ingredients are listed on the TSCA Inventory of Chemical Substances. Those not identified are non-hazardous.

HMIS Ratings

Health: 3
Flammability: 2
Reactivity: 0

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: Warning! Skin sensitizer. Potential respiratory tract sensitizer. Eye and skin irritant. Wash with soap and water thoroughly after use.

Hazard Statement: Combustible liquid. Keep liquid and vapor away from heat, sparks and flame. Vapors may accumulate and travel to distant ignition sources.

Primary Routes of Entry: Eye and skin contact, inhalation

SECTION 4: FIRST AID MEASURES

	Potential Health Effects	First Aid/ Medical Info.
Eye Contact:	May be severely irritating to the eyes. May cause corneal damage.	Immediately flush eyes with plenty of water for 15 minutes while holding eyelids open. Seek medical attention.
Skin Contact:	Extremely irritating to the skin and may cause damage.	Wash with soap and water.
Inhalation:	May cause irritation to the nose, throat and respiratory tract.	Remove to fresh air and provide oxygen if breathing is difficult. Seek medical attention.
Ingestion:	Product may be slightly toxic.	Induce vomiting only as directed by emergency personnel. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Seek medical attention.

Note:

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical or water.

Fire Fighting Instruction: Caution. Combustible. Do not enter confined fire space without full protective clothing and MSHA/NIOSH self-contained breathing apparatus with full facepiece. Cool fire exposed containers with water.

Special Hazards: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Vapors may accumulate and travel to distant ignition sources.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Dike to prevent further movement. Contain with absorbent material such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Flush area with water to remove trace residue.

SECTION 7: HANDLING & STORAGE	SECTION 12: ECOLOGICAL INFORMATION
<p>Handling: Avoid contact with skin and eyes. Avoid breathing vapors of heated material. Use with adequate ventilation. Observe good housekeeping practices.</p> <p>Storage: Keep container closed when not in use. Combustible liquid. Keep liquid and vapor away from heat, sparks and flame.</p>	<p>NA</p>
SECTION 8: EXPOSURE CONTROL & PERSONAL PROTECTION	SECTION 13: DISPOSAL INFORMATION
<p>Engineering Measures: General and/or local exhaust ventilation to control vapor concentration.</p> <p>Respiratory Protection: Use MSHA/NIOSH approved respiratory protection if level of air contaminants is excessive.</p> <p>Protective Gloves: Chemical resistant gloves.</p> <p>Eye Protection: Chemical goggles.</p> <p>Other: Eye wash and shower facility should be available.</p>	<p>Dispose of waste material according to Federal, State and Local regulations.</p>
SECTION 9: PHYSICAL & CHEMICAL PROPERTIES	SECTION 14: TRANSPORT INFORMATION
<p>Appearance: Light yellow liquid Odor: BGE odor Solubility: Negligible Boiling Point: NA Melting Point: NA Flash Point: 164°F (73°C) Setflash Vapor Pressure: 1 mm/Hg Vapor Density: 4.5 Evaporation Rate: NA Specific Gravity: 1.13 Flammable Limits LEL: NA Flammable Limits UEL: NA</p>	<p>NA</p>
SECTION 10: STABILITY & REACTIVITY	SECTION 15: REGULATORY INFORMATION
<p>Stability: Stable</p> <p>Conditions to Avoid/Incompatibles: Avoid heat, flame and contact with strong oxidizing agents. Can react vigorously with strong Lewis acids or mineral acids and strong mineral and organic bases especially primary and secondary aliphatic amines. Reaction with some curing agents may produce considerable heat.</p> <p>Decomposition Products: Carbon monoxide, aldehydes and acids.</p> <p>Hazardous Polymerization: Will not occur by itself, but masses of more than one pound of product plus an aliphatic amine will cause irreversible polymerization with considerable heat buildup.</p>	<p>State Right-To-Know Information: This product contains chemicals which are on the following states lists: FL, IL, MA, ME, MN, RI, CA</p> <p>SARA Title III Section 313 Information: This product does not contain any reportable chemicals.</p> <p>This product contains a chemical or chemicals known to the state of California to cause cancer and/or reproductive toxicity.</p>
SECTION 11: TOXICOLOGICAL INFORMATION	SECTION 16: OTHER INFORMATION
<p>Primary Route(s) of Entry: Eye and skin contact, inhalation</p> <p>Toxicity: Oral LD50 - 9.0 g/Kg (rat) Dermal LD50 - >20ml/Kg (rabbit) Inhalation LC50 - 1030 ppm/8 H (rat)</p>	<p>Legend NAIF: No Applicable Information Found NA: Not Available/Applicable NE: None Established</p> <p>DISCLAIMER: The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. ALLIED HIGH TECH PRODUCTS, INC. makes no warranty, either express or implied, as to its accuracy or completeness and none is made as to the fitness of this material for any purpose. The manufacturer/distributor shall not be liable for damages to person or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.</p>
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MATERIAL/CHEMICAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Details

Product Name: EpoxySet Hardener - Part B

Allied Item No.: 145-20000, -20010,
-20020, -20030

Chemical Name: Aliphatic Amine

Company Identification

Allied High Tech Products, Inc.
2376 East Pacifica Place
Rancho Dominguez, CA 90220
(310) 635-2466

Contact Point

Transportation for United States
Chemtrec (800) 424-9300 * (202) 483-7616

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Exposure Limits in Air		Carcin. Y/N
		ACGIH TLV or TWA	OSHA PEL	
Triethylenetetramine 100%	112-24-3	NE	NE	

Ingredients are listed on the TSCA Inventory of Chemical Substances. Those not identified are non-hazardous.

HMIS Ratings

Health: 3
Flammability: 1
Reactivity: 0

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: Causes eye and skin burns. Harmful and corrosive if swallowed. Harmful if inhaled or absorbed through skin. May cause asthma with possible long-term lung damage. May cause allergic skin reaction. Do not get in eyes, on skin or clothing. Avoid breathing vapor.

Hazard Statement: None

Primary Routes of Entry: Eye and skin contact, inhalation.

SECTION 4: FIRST AID MEASURES

	Potential Health Effects	First Aid/ Medical Info.
Eye Contact:	Corrosive to the eyes and may cause severe damage including blindness. Vapors may be irritating.	Immediately flush eyes with plenty of water for 15 minutes while holding eyelids open. Seek medical attention immediately.
Skin Contact:	Corrosive to the skin. May cause sensitization. May be toxic if absorbed through skin.	Wash with soap and water. Remove contaminated clothing. Seek medical attention immediately.
Inhalation:	Severe irritation, difficult breathing and pulmonary sensitization.	Remove to fresh air and provide oxygen if breathing is difficult. Seek medical attention.
Ingestion:	Harmful and corrosive and may cause severe and permanent damage to mouth, throat and stomach. May be moderately toxic if swallowed.	Do NOT induce vomiting. Give one to two glasses of water unless victim is drowsy, convulsing or unconscious.

Note: Induce vomiting only as directed by emergency personnel. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Causes eye and skin burns. Harmful and corrosive if swallowed. Harmful if inhaled or absorbed through skin. May cause asthma with possible long-term lung damage. May cause allergic skin reaction.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical or water.

Fire Fighting Instruction: Caution. Combustible. Do not enter confined fire space without full protective clothing and MSHA/NIOSH self-contained breathing apparatus with full facepiece. Cool fire exposed containers with water.

Special Hazards: During fire, oxides of nitrogen may be evolved.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Wear suitable protective gear. Flush with large amounts of water. Avoid discharge into sewers or waterways.

<p>SECTION 7: HANDLING & STORAGE</p>	<p>SECTION 12: ECOLOGICAL INFORMATION</p>
<p><u>Handling:</u> Avoid contact with skin and eyes. Avoid breathing vapors of heated material. Observe good housekeeping practices.</p> <p><u>Storage:</u> Keep container closed when not in use.</p>	<p>NA</p>
<p>SECTION 8: EXPOSURE CONTROL & PERSONAL PROTECTION</p>	<p>SECTION 13: DISPOSAL INFORMATION</p>
<p><u>Engineering Measures:</u> General and/or local exhaust ventilation to control vapor concentration.</p> <p><u>Respiratory Protection:</u> Use MSHA/NIOSH approved respiratory protection.</p> <p><u>Protective Gloves:</u> Butyl or neoprene gloves and apron.</p> <p><u>Eye Protection:</u> Safety glasses or chemical splash goggles.</p> <p><u>Other:</u> Eye wash and shower facility should be available.</p>	<p>Dispose of waste material according to Federal, State and Local regulations.</p>
<p>SECTION 9: PHYSICAL & CHEMICAL PROPERTIES</p>	<p>SECTION 14: TRANSPORT INFORMATION</p>
<p>Appearance: Liquid Odor: Ammoniacal odor Solubility: Soluble Boiling Point: 531°F (277°C) Melting Point: NA Flash Point: >300°F (149°C) Setflash Vapor Pressure: <.01 mm/Hg @ 68°F (20°C) Vapor Density: NA Evaporation Rate: <0.01 Specific Gravity: .98 Flammable Limits LEL: NA Flammable Limits UEL: NA</p>	<p>NA</p> <p>SECTION 15: REGULATORY INFORMATION</p> <p><u>SARA Title III Section 313 Information:</u> This product does not contain any reportable chemicals.</p>
<p>SECTION 10: STABILITY & REACTIVITY</p>	<p>SECTION 16: OTHER INFORMATION</p>
<p><u>Stability:</u> Stable</p> <p><u>Conditions to Avoid/Incompatibles:</u> Vigorous heating.</p> <p><u>Decomposition Products:</u> Ethylenediamine, Diethylenetriamine, volatile amines and ammonia.</p> <p><u>Hazardous Polymerization:</u> Will not occur.</p>	<p>Legend NAIF: No Applicable Information Found NA: Not Available/Applicable NE: None Established</p> <p>DISCLAIMER: The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. ALLIED HIGH TECH PRODUCTS, INC. makes no warranty, either express or implied, as to its accuracy or completeness and none is made as to the fitness of this material for any purpose. The manufacturer/distributor shall not be liable for damages to person or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.</p>
<p>SECTION 11: TOXICOLOGICAL INFORMATION</p>	
<p><u>Primary Route(s) of Entry:</u> Eye and skin contact, inhalation</p> <p><u>Toxicity:</u> Oral LD50 -2.5 g/Kg (rat) Dermal LD50 - >805mg/Kg (rabbit) Inhalation LC50 - NE</p>	
<p>Page 2 of 2:</p>	<p>Form Prepared By: Allied High Tech Products, Inc. 2/1/2006</p>