

## MATERIAL/CHEMICAL SAFETY DATA SHEET

### SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

#### Product Details

Product Name: Epoxy Bond 110 - Part A

Allied Item No.: 71-10000

Chemical Name: Epoxy Adhesive

#### 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	
Reaction product of epichlorohydrin & bisphenol A 65-85%	025085-99-8	NE	NE	N
1,4 Butanediol Diglycidyl Ether 1-10%	2425-79-8	NE	NE	N

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

#### HMIS Ratings

Health: 2  
Flammability: 1  
Reactivity: 0

### SECTION 3: HAZARDS IDENTIFICATION

**Emergency Overview:** Reaction product of epichlorohydrin and bisphenol A is considered hazardous under OSHA's Hazardous Communication Standards under 29 CFR, 1910.1200. 1,4 butanediol diglycidyl ether is considered hazardous under 311 and 312 of SARA Title III.

Solvents should not be used to clean skin because of increased penetration potential. Protective skin oils can be dissolved by solvents.

### SECTION 4: FIRST AID MEASURES

	Potential Health Effects	First Aid/ Medical Info.
Eye Contact:	Extremely irritating with the possibility of permanent eye injury.	Flush well with water. Seek medical attention immediately.
Skin Contact:	Skin irritation may be experienced with some individuals.	Clean with soap and water. Do not use solvents. Remove contaminated clothing.
Inhalation:	Hot vapors if inhaled can cause headaches, nausea, dizziness and respiratory irritation.	Remove to fresh air. If discomfort persists seek medical attention.
Ingestion:	Contains material that may be moderately toxic. Ingestion can upset the gastric system.	Seek medical attention immediately.

Note: Chronic/Acute Effects of Exposure: Combinations of above conditions can be experienced.

### SECTION 5: FIRE FIGHTING MEASURES

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

**Fire Fighting Instruction:** Remove all ignition sources. Use a water spray to cool fire exposed containers. Wear full protective clothing and OSHA/NIOSH self-contained breathing apparatus with full facepiece.

**Special Hazards:** Avoid fumes liberated by heat.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Eliminate ignition sources. Use eye and skin protection. Place leaking containers in a well ventilated area. Contain with absorbent material such as clay, soil or any commercially available absorbent. Transfer contaminated absorbent, soil and other materials into recovery or salvage drums for disposal.

<p><b>SECTION 7: HANDLING &amp; STORAGE</b></p>	<p><b>SECTION 12: ECOLOGICAL INFORMATION</b></p>
<p><u>Handling:</u> Avoid contact with skin and eyes. Avoid breathing vapors. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential-protective skin oils can be dissolved by solvents. Observe good housekeeping practices.</p> <p><u>Storage:</u> Keep container closed when not in use.</p>	<p>No information available.</p>
<p><b>SECTION 8: EXPOSURE CONTROL &amp; PERSONAL PROTECTION</b></p>	<p><b>SECTION 13: DISPOSAL INFORMATION</b></p>
<p><u>Engineering Measures:</u> Local exhaust recommended for exposure control.</p> <p><u>Respiratory Protection:</u> Use OSHA/NIOSH approved respiratory protection if level of air contaminants is excessive.</p> <p><u>Protective Gloves:</u> Impervious gloves-neoprene or equivalent. A combination of barrier cream and gloves is recommended.</p> <p><u>Eye Protection:</u> Chemical splash goggles recommended.</p> <p><u>Other:</u> For operations where contact can occur, use a face shield and impervious apron. Eyewash and safety shower are recommended.</p>	<p>Incinerate or use hazardous waste treatment procedures that are in accordance with Federal, State and Local regulations.</p>
<p><b>SECTION 9: PHYSICAL &amp; CHEMICAL PROPERTIES</b></p>	<p><b>SECTION 14: TRANSPORT INFORMATION</b></p>
<p>Appearance: Clear liquid                  Odor: Mild                  Solubility: Low                  Boiling Point: NA                  Melting Point: NA                  Flash Point: 400°F (204°C)                  Vapor Pressure: NA                  Vapor Density: &gt;Air                  Evaporation Rate: &lt;BUAC                  Specific Gravity: NA                  Flammable Limits LEL: NA                  Flammable Limits UEL: NA</p>	<p>Not Restricted.</p>
<p><b>SECTION 10: STABILITY &amp; REACTIVITY</b></p>	<p><b>SECTION 15: REGULATORY INFORMATION</b></p>
<p><u>Stability:</u> Stable</p> <p><u>Conditions to Avoid/Incompatibles:</u> Excessive heat, strong oxidizing and reducing agents.</p> <p><u>Decomposition Products:</u> Fumes produced when heated to decomposition may include carbon monoxide and carbon dioxide.</p> <p><u>Hazardous Polymerization:</u> Will not occur.</p>	<p>Not Restricted.</p>
<p><b>SECTION 11: TOXICOLOGICAL INFORMATION</b></p>	<p><b>SECTION 16: OTHER INFORMATION</b></p>
<p>NA</p>	<p><b>Legend</b>                  NAIF: No Applicable Information Found                  NA: Not Available/Applicable                  NE: None Established</p> <p><b>DISCLAIMER:</b> 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>Form Prepared By: Allied High Tech Products, Inc. 2/1/2006</p>

## MATERIAL/CHEMICAL SAFETY DATA SHEET

### SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

#### Product Details

Product Name: Epoxy Bond 110 - Part B

Allied Item No.: 71-10000

Chemical Name: Epoxy Adhesive

#### 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	
Imidazole 25-50%	288-32-4	NE	2 mg/m3	N

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:** Repeated and/or prolonged exposures may result in adverse respiratory effects such as cough, tightness of chest or shortness of breath; adverse eye effects such as conjunctivitis corneal damage, rash, irritation or corrosion.

Solvents should not be used to clean skin because of increased penetration potential. Protective skin oils can be dissolved by solvents.

### SECTION 4: FIRST AID MEASURES

	Potential Health Effects	First Aid/ Medical Info.
Eye Contact:	Irritating to the eyes. Can cause burns and/or injury.	Flush well with water. Seek medical attention immediately.
Skin Contact:	May cause dermatitis and skin sensitization in some individuals.	Clean with soap and water. Do not use solvents. Remove contaminated clothing.
Inhalation:	Hot vapors if inhaled can cause headaches, nausea, dizziness and respiratory irritation.	Remove to fresh air. If discomfort persists seek medical attention.
Ingestion:	Contains material that may be moderately toxic. Ingestion can upset the gastric system.	Seek medical attention immediately.

Note:

### SECTION 5: FIRE FIGHTING MEASURES

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

**Fire Fighting Instruction:** Remove all ignition sources. Use a water spray to cool fire exposed containers. Wear full protective clothing and OSHA/NIOSH self-contained breathing apparatus with full facepiece.

**Special Hazards:** Avoid fumes liberated by heat.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Eliminate ignition sources. Use eye and skin protection. Contain with absorbent material such as clay, soil or any commercially available absorbent. Transfer contaminated absorbent, soil and other materials into recovery or salvage drums for disposal.

<p><b>SECTION 7: HANDLING &amp; STORAGE</b></p>	<p><b>SECTION 12: ECOLOGICAL INFORMATION</b></p>
<p><u>Handling:</u> Avoid contact with skin and eyes. Avoid breathing vapors. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential-protective skin oils can be dissolved by solvents. Observe good housekeeping practices.</p> <p><u>Storage:</u> Keep container closed when not in use.</p>	<p>No information available.</p>
<p><b>SECTION 8: EXPOSURE CONTROL &amp; PERSONAL PROTECTION</b></p>	<p><b>SECTION 13: DISPOSAL INFORMATION</b></p>
<p><u>Engineering Measures:</u> Local exhaust recommended for exposure control.</p> <p><u>Respiratory Protection:</u> Use OSHA/NIOSH approved respiratory protection if level of air contaminants is excessive.</p> <p><u>Protective Gloves:</u> Impervious gloves-neoprene or equivalent. A combination of barrier cream and gloves is recommended.</p> <p><u>Eye Protection:</u> Chemical splash goggles recommended.</p> <p><u>Other:</u> For operations where contact can occur, use a face shield and impervious apron. Eyewash and safety shower are recommended.</p>	<p>Incinerate or use hazardous waste treatment procedures that are in accordance with Federal, State and Local regulations.</p>
<p><b>SECTION 9: PHYSICAL &amp; CHEMICAL PROPERTIES</b></p>	<p><b>SECTION 14: TRANSPORT INFORMATION</b></p>
<p>Appearance: Amber liquid                  Odor: Mild                  Solubility: NA                  Boiling Point: NA                  Melting Point: NA                  Flash Point: 200°F (93°C)                  Vapor Pressure: NA                  Vapor Density: &gt;Air                  Evaporation Rate: &lt;BUAC                  Specific Gravity: 1.02                  Flammable Limits LEL: NA                  Flammable Limits UEL: NA</p>	<p><u>DOT Shipping Name:</u> Imidazole</p> <p><u>DOT Hazard Class:</u> 8</p> <p><u>DOT Packing Group:</u> III</p> <p><u>DOT Id Number:</u> UN3267</p> <p><u>Transports Labels:</u> Corrosive, liquid, basic, organic, n.o.s.</p>
<p><b>SECTION 10: STABILITY &amp; REACTIVITY</b></p>	<p><b>SECTION 15: REGULATORY INFORMATION</b></p>
<p><u>Stability:</u> Stable</p> <p><u>Conditions to Avoid/Incompatibles:</u> Excessive heat, strong oxidizing and reducing agents.</p> <p><u>Decomposition Products:</u> Fumes produced when heated to decomposition may include carbon monoxide and carbon dioxide.</p> <p><u>Hazardous Polymerization:</u> Will not occur.</p>	<p><u>Toxic Substance Control Act TSCA:</u> All ingredients are TSCA listed.</p>
<p><b>SECTION 11: TOXICOLOGICAL INFORMATION</b></p>	<p><b>SECTION 16: OTHER INFORMATION</b></p>
<p>NA</p>	<p><b>Legend</b>                  NAIF: No Applicable Information Found                  NA: Not Available/Applicable                  NE: None Established</p> <p><b>DISCLAIMER:</b> 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>Form Prepared By: Allied High Tech Products, Inc. 2/1/2006</p>