

MATERIAL SAFETY DATA SHEET



420 N. ROOSEVELT AVE.  
CHANDLER, AZ 85226  
(800) 528-8242

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Date Prepared: 05/04/05  
Revision Number: 2

Section 1 - Material Identification

**Product Name:** HFS Binder  
**Product Type:** Epoxy Hardener "B"  
**Emergency Number (s):** (800) 255-3924 24 hrs. (Continental U.S.)  
(813) 248-0585 24 hrs. (outside Continental U.S.)  
**Revision Note:** None

Section 2 - Hazardous Ingredients

#	wt %	CAS Number	Chemical Name
1.	> 1 %	Trade Secret	Amine Blend

OSHA & ACGIH EXPOSURE LIMITS

	TWA		STEL		CEILING	
	ppm	mg/m3	Ppm	mg/m3	ppm	mg/m3
1. OSHA	N/E	N/E	N/E	N/E	N/E	N/E
ACGIH	N/E	N/E	N/E	N/E	N/E	N/E

N/E = Not Established

Section 3 - Health Hazards

EMERGENCY OVERVIEW

**HMIS HEALTH RATING:** 3 **FLAMMABILITY:** 1 **REACTIVITY:** 0

==HMIS Hazard Rating ➡ Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

An amber liquid with an amine odor. Corrosive to skin. Corrosive to eyes. Severe skin irritant. Severe eye irritant. May cause skin sensitization. May cause respiratory sensitization. Can burn in fire, releasing possible hazardous vapors, gases and fumes. Do not torch or weld on cured epoxy. Hazardous fumes and vapors may be released.

**Routes of Exposure:** Eye Contact, Skin Contact, Inhalation, Ingestion.

**Health Hazards:** Corrosive to skin. Corrosive to eyes. Severe skin irritant. Severe eye irritant. May cause skin sensitization. May cause respiratory sensitization.

**Target Organs:** Eyes, Skin, and Respiratory System.

**Signs and Symptoms of Exposure (Acute Effects):** Burns of the eye may cause blindness. Contact of undiluted products with the eyes or skin quickly causes severe irritation and pain and may cause burns, necrosis, and permanent injury. Inhalation of mists may severely damage contacted tissue and produce scarring. Product is readily absorbed through the skin and may cause discomfort, injury or serious health problems unless treated properly.

**Signs and Symptoms of Exposure (Possible Longer Term Effects):** This substance may cause respiratory sensitization to exposed workers.

**Medical Conditions Generally Aggravated by Exposure:** Asthma, chronic respiratory disease (e.g. Bronchitis, emphysema). Eye disease, skin disorders and allergies.

**Carcinogens under OSHA, ACGIH, NTP, IARC, other:** This product contains no carcinogens in concentrations of 0.1 percent or greater.



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#### Section 4 - First Aid

**Eye Contact:** Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

**Skin Contact:** Remove contaminated clothing/shoes and wipe excess from skin. Immediately flush affected area with water for at least 15 minutes. Cover the affected area with a sterile dressing or clean sheeting and seek medical attention immediately. DO NOT APPLY GREASES OR OINTMENTS. Control shock if present.

**Inhalation:** Remove victim to fresh air and provide oxygen. If breathing is difficult, seek medical attention.

**Ingestion:** In the event of ingestion, administer 3-4 glasses of milk or water. DO NOT INDUCE VOMITING. Seek medical attention immediately.

#### Section 5 - Fire and Explosion Data

**Flash Point (closed cup):** >200 °F

**Lower Explosion Limit (LEL):** No data

**Upper Explosion Limit (UEL):** No data

**Auto Ignition Temperature:** No data

**Fire Hazard Classification (OSHA/NFPA):** Class IIIB.

**Extinguishing Media:** Foam, Carbon Dioxide (CO<sub>2</sub>), or dry chemical.

**Special Fire Fighting Procedures:** Keep personnel removed from area and upwind of fire. Wear full fire-fighting turnout gear (full bunker gear) and respiratory protection (SCBA). Cool fire exposed containers with water spray.

**Unusual Fire and Explosion Hazards:** Hazardous combustion products may be present. Combustion may form aldehydes, nitrous oxides, carbon monoxide (CO), and carbon dioxide (CO<sub>2</sub>).

#### Section 6 - Accidental Release Measures

**Containment Techniques (Removal of ignition sources, diking etc.)** Reduce vapor spreading with a water spray. Stop the leak, if possible. Shut off or remove all ignition sources. Construct a dike to prevent spreading.

**Clean-Up Procedures:** Spread absorbent material over area. Transfer to containers by suction. For large spills, recover spilled material with a vacuum truck. Dispose of material in accordance with local, state and federal regulations. Wash area with soap and water. Prevent washings from entering sewers or waterways.

**Other Emergency Advice:** Wear protective clothing, boots, gloves, respirator, and eye protection.

#### Section 7 - Handling and Storage

**Storage:** Ideal storage conditions are a warm (60-80°F), dry, ventilated place. Acceptable temperature range is 55-120 °F. Store in closed containers.

**Handling:** Avoid breathing of vapors. Handle in well-ventilated workspace. Avoid contact with skin, eyes, or clothing. When handling, do not eat, drink, or smoke.

**Other Precautions:** Emergency showers and eye wash stations should be readily accessible. Wash thoroughly after handling. Remove contaminated clothing and gear. Decontaminate. Destroy leather or any articles, which can not be decontaminated.

#### Section 8 - Personal Protection/Exposure Controls

**Eye Protection:** Chemical safety goggles with a full-face shield. Contact lenses should not be worn while using this product.

**Hand Protection:** Neoprene, butyl or nitrile rubber gloves.

**Respiratory Protection:** Not necessary under most operating conditions. NIOSH approved organic vapor respirator should be used in confined areas, or when conditions cause high vapor concentrations. If the percent oxygen is below normal then use self-contained breathing apparatus.

**Protective Clothing:** Impervious clothing. Wear boots, chemical apron, and/or full-body suit as needed to prevent prolonged or repeated skin exposure.

**Work and Hygienic Practices:** Eye wash stations and safety showers should be easily accessible.

#### Section 9 - Typical Physical and Chemical Properties

<b>Physical Form:</b>	Liquid	<b>Vapor Density:</b>	Heavier than air
<b>Color:</b>	Amber	<b>Boiling Point:</b>	>200 °F
<b>Odor:</b>	Amine	<b>Melting Point:</b>	Not applicable
<b>pH:</b>	Alkaline	<b>Solubility in Water:</b>	No data
<b>Vapor Pressure:</b>	No data	<b>Specific Gravity:</b>	0.99

#### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable

**Conditions to Avoid (if stable):** None

**Incompatibility (Materials to Avoid):** Acids, strong oxidizing agents.

**Hazardous Decomposition Products:** None

**Hazardous Polymerization:** Contact with epoxy resins under uncontrolled conditions. May release excess heat and vapors.

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Section 11 - Toxicological Properties

Acute Oral Toxicity (LD50, RAT): No data available.  
Acute Dermal Toxicity (LD50, RABBIT): No data available.  
Acute Inhalation Toxicity (LC50, RAT): No data available.

Section 12 - Ecological Information

No Data Available

Section 13 - Disposal Considerations

**Waste Disposal:** This material does not contain any VOC's (volatile organic compounds). Dispose of material in accordance with applicable, local, state, and federal laws and regulations. The state and local regulations and laws may differ from federal regulations, and laws may change or be reinterpreted. This information only applies to the material as manufactured. Processing, use, or contamination may make the information in appropriate, inaccurate, or incomplete. Responsibility for proper waste disposal is with the owner of the waste.

Section 14 - Transport Information

<b>DOT Non-Bulk Shipping Name:</b>	Consumer Commodity	<b>UN#:</b>	UN1719
<b>DOT Bulk Shipping Name:</b>	Caustic Alkali Liquids, N.O.S.	<b>Packing Group:</b>	III
<b>Technical Shipping Name:</b>	Contains 2 Aliphatic Amines	<b>IMO Shipping Data:</b>	Caustic Alkali Liquid N.O.S.
<b>DOT Hazard Class :</b>	8	<b>ICAO/IATA Shipping Data:</b>	Caustic Alkali Liquid N.O.S.

Section 15 - Regulatory Information

US FEDERAL REGULATIONS:

**Toxic Substances Control Act (TSCA):** All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory or are not required to be listed on the TSCA Inventory.  
**OSHA (29CFR1910.1200) Hazard Class(es):** Corrosive. Sensitizer.  
**EPA Sara Title III Section 312 (40CFR370) Hazard Classes:** Immediate Health hazard. Delayed Health Hazard.  
**EPA Sara Title III Section 313 (40CFR372):** Toxic chemicals above "de minimus" level: None

STATE REGULATIONS:

**California Proposition 65 Substances:** (components known to the State of California to cause cancer an/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986"). None

INTERNATIONAL REGULATIONS

**Canada: WHMIS Hazard Classification:** Class D, Division 2A  
Class D, Division 2B  
Class E  
**WHMIS Risk Phrases:** Causes burns. Skin Sensitizer. Lung sensitizer.  
**WHMIS Symbols:** Stylized T, test tube/hand

Section 16 - Other Information

*To the best of our knowledge, the information contained herein is accurate. However, neither CrafcO nor any of its agents assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards, which exist.*