



5220 Gaines Street
San Diego, CA 92110
Telephone: (866-295-5512)

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Date Prepared: 03/04/14
Revision Number: 1

Section 1 - Material Identification

Product Code: H 104-97
Product Type: Epoxy Hardener
Product Manufacturer: DIAMATIC USA
Emergency Number (s): (800) 255-3924 24 hrs. (Continental U.S.)
(813) 248-0585 24 hrs. (Outside Continental U.S.)
Revision Notes: N/A

Section 2 - Hazardous Ingredients

#	wt %	CAS Number	Chemical Name
1.	> 1 %	N/A	Amines / Proprietary Blend

OSHA & ACGIH EXPOSURE LIMITS

	TWA		STEL		CEILING	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1. OSHA	N/A	N/A	N/A	N/A	N/A	N/A

NOTE : PEL/TLV have not been established for this material

Section 3 - Health Hazards

HMIS HEALTH RATING: 2 **FLAMMABILITY:** 1 **REACTIVITY:** 0

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

ROUTES OF EXPOSURE: Eye Contact, Skin Contact, Ingestion. **HEALTH HAZARDS:** May cause skin irritation. Moderate skin irritant. May cause skin sensitization. **TARGET ORGANS:** Eyes, Skin. **SIGNS AND SYMPTOMS OF EXPOSURE (ACUTE EFFECTS):** Contact with skin or eyes causes irritation, redness and discomfort. **SIGNS AND SYMPTOMS OF EXPOSURE (POSSIBLE LONGER TERM EFFECTS):** Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposure may result in adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion). **MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Eye diseases, skin disorders and allergies. **CARCINOGENS UNDER OSHA, ACGIH, NTP, IARC, OTHER:** This product contains no carcinogens in concentration of 0.1% or greater.

Section 4 - First Aid

EYE CONTACT: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 min. Seek medical attention. **SKIN CONTACT:** Remove contaminated clothing/shoes and wipe excess from skin. Immediately flush affected area with water for at least 15 min. Cover the affected area with a sterile dressing or clean sheeting and seek medical attention. 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 **AUTOIGNITION TEMPERATURE:** No Data
FIRE HAZARD CLASSIFICATION (OSHA/NFPA): This product is considered neither flammable nor combustible, but will burn if involved in a fire.
EXTINGUISHING MEDIA: Foam, Carbon Dioxide (CO₂), 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 (CO₂).



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Section 6 - Accidental Release Measures

CONTAINMENT TECHNIQUES: 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 the area with soap and water. Prevent washing from entering sewers or waterways. OTHER EMERGENCY ADVICE: Wear protective clothing, boots, gloves, respirator, and eye protection.

Section 7 - Handling and Storage

STORAGE: Store in a warm (60-80°F), dry, ventilated place. 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, smoke.

OTHER PRECAUTIONS: Emergency showers and eye wash stations should be readily accessible.

Section 8 - Personal Protection / Exposure Controls

EYE PROTECTION: Full-face shield with chemical safety goggles. Contact lenses should not be worn while using this product. HAND PROTECTION: Neoprene rubber gloves. Cuffed butyl rubber gloves. 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. PROTECTIVE CLOTHING: Impervious clothing. Slickersuit. Rubber boots Full rubber suit (rain gear). Butyl or latex protective clothing.

Section 9 - Typical Physical and Chemical Properties

Physical Form:	Liquid	Vapor Density:	Heavier than air
Color:	Light Straw	Boiling Point:	> 200 °F
Odor:	Amine	Melting Point:	N/A
pH:	Alkaline	Solubility in Water:	Negligible
Vapor Pressure:	No Data	Specific Gravity:	1.02

Section 10 - Stability and Reactivity

CHEMICAL STABILITY: Stable. INCOMPATIBILITY (MATERIALS TO AVOID): Acids, strong oxidizing agents. CONDITIONS TO AVOID: None. HAZARDOUS POLYMERIZATION: Contact with epoxy hardeners under uncontrolled conditions. May release excess heat and vapors. HAZARDOUS DECOMPOSITION PRODUCTS: None.

Section 11 - Toxicological Properties

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 inappropriate, inaccurate, or incomplete. Responsibility for proper waste disposal is with the owner of the waste.



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Section 14 - Transportation Information

DOT NON-BULK SHIPPING NAME: Caustic Alkali Liquids, N.O.S. DOT BULK SHIPPING NAME: Caustic Alkali Liquids N.O.S.
TECHNICAL SHIPPING NAME: Aliphatic Amine. DOT HAZARD CLASS: 8. UN# UN1719.
PACKAGING GROUP: III IMO. SHIPPING DATA: Caustic Alkali Liquida, N.O.S.

Section 15 - Regulatory Information

U.S. 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): Corosive, Sensitizer.
EPA SARA TITLE III SECTION 312 (40CFR370) HAZARD CLASSES: Immediate Health Hazard. Delayed Health Hazard.
EPA SARA TITLE III SECTION 31 3 (40CFR372): Toxic chemicals above "de minimus" level: None.

STATE REGULATIONS

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

Section 16 - Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither Diamatic USA nor any of its agents assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suilability 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.

REVISED BY: Alex A. Kaslow
TITLE: Technical Director