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MATERIAL SAFETY DATA SHEET (MSDS)

Section 1: MATERIAL IDENTIFICATION

PRODUCT NAME: QuakeBond™ 320 LV Low Viscosity Epoxy (Part "A")

CHEMICAL FAMILY: Epoxy Resin Compound

SUPPLIER'S NAME: QuakeWrap, Inc., 2055 E. 17th Street, Tucson, AZ 85719

EMERGENCY PHONE: 800/535-5053 (Infotrac) GENERAL INFORMATION: (866) QuakeWrap [782-5397]

Section 2: HAZARDOUS INGREDIENTS

WT % CAS NUMBER CHEMICAL NAME
>1% Trade Secret Epoxy Resin

OSHA & ACGIH EXPOSURE LIMITS

	TWA		STEL		CEILING		
	ppm	mg/m 3	ppm	mg/m3	ppm	mg/m ₃	
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: 2

FLAMMABILITY: 1

REACTIVITY: 0

HMIS Hazard Rating

Least - 0

Slight - 1

Moderate - 2

High - 3

Extreme - 4

- A clear liquid with a slight "sweet" odor.
- · Causes eye and skin irritation.
- · 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, Ingestion.
- HEALTH HAZARDS: May cause eye irritation. May cause skin sensitization. Moderate skin
- irritant.
- 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 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.

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. Flush skin with water. Follow by washing with soap and water. If irritation occurs, seek medical attention. If contact with hot product occurs, immediately flush with cool water for 15 minutes. Carefully remove clothing; if clothing is stuck to a burn area do not pull it off, but cut around it. Cover burn area with a clean material. Get medical attention immediately.
- INHALATION: Remove victim to fresh air and provide oxygen. If breathing is difficult, seek medical attention.
- INGESTION: If swallowed, call physician immediately. Induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5: FIRE AND EXPLOSION DATA

FLASH POINT (CLOSED CUP): > 200 °F AUTO IGNITION TEMPERATURE: No data

UPPER EXPLOSION LIMIT (UEL): LOWER EXPLOSION LIMIT (LEL):

No data No data

- FIRE HAZARD CLASSIFICATION (OSHA/NFPA): This product is not considered 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 turn-out 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).

Section 6: ACCIDENTAL RELEASE MEASURES

- CONTAINMENT TECHNIQUES (REMOVAL OF IGNITION SOURCES, DIKING, ETC.) 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. Wipe or scrape up material.
 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: Store in a cool (60-80 °F), dry, ventilated place. Crystallization may occur if storage temperature drops below 55 °F for a prolonged period of time. Store in closed containers.
- HANDLING: Avoid contact with skin, eyes, or clothing. When handling, do not eat, drink, or smoke.
- OTHER PRECAUTIONS: Wash thoroughly after handling. Remove contaminated clothing and gear. Decontaminate. Destroy leather or any articles which cannot be decontaminated.

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Section 8: PERSONAL PROTECTION/EXPOSURE CONTROLS

 EYE PROTECTION: Chemical safety goggles recommended. Contact lenses should not be worn while using this product.

- HAND PROTECTION: Chemical resistant gloves recommended, such as neoprene or nitrite rubber.
- 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: Clean, body covering clothing should be utilized.

 WORK AND HYGIENIC PRACTICES: Eye wash stations and safety showers should be easily accessible.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:

Liquid

VAPOR DENSITY:

Heavier than air

COLOR:

Clear

BOILING POINT: MELTING POINT:

>200 °F

ODOR: Ph:

Slight sweet

SOLUBILITY IN WATER:

Not Applicable Negligible

VAPOR PRESSURE:

No data No data

SPECIFIC GRAVITY:

1.16

Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:

Stable

CONDITIONS TO AVOID (IF UNSTABLE):

None

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.

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Section 14: TRANSPORT INFORMATION

DOT NON-BULK SHIPPING NAME: DOT BULK SHIPPING NAME: TECHNICAL SHIPPING NAME: DOT HAZARD CLASS: PACKING GROUP: IMO SHIPPING DATA: CAO/IATA SHIPPING DATA:

Resin Compound - not regulated Resin Compound- not regulated NMFC Item 46030, Class 55 Not regulated Not regulated Resin Compound - not regulated Resin Compound - not regulated

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): Irritant. Sensitizer
- EPCRA SECTION 312 (40CFR370) HAZARD CLASSES: Immediate Health Hazard. Delayed Health Hazard.
- EPCRA SECTION 313 (40CFR372): Toxic chemicals above "de minimus" level (% by weight): None

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65 SUBSTANCES: (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"). None

INTERNATIONAL REGULATIONS

CANADA:

WHMIS Hazard Classification: Class D, division 2B

WHMIS Risk Phrases: Eye or skin irritant. Skin sensitizer.

WHMIS Symbols: Stylized T

Section 16: CANADIAN REGULATORY INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither QuakeWrap, Inc. 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.

ABBREVIATIONS: N/A = not applicable; N.D.A. = no data available; NE = not established

END OF MSDS