# **MATERIAL SAFETY DATA SHEET (MSDS)**

### Section 1: MATERIAL IDENTIFICATION

PRODUCT NAME: QuakeBond™ 320 LV Crack Injection Epoxy (Part "B")

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 %	<b>CAS NUMBER</b>	CHEMICAL NAME Aliphatic Amine &		
>1%	Trade Secret			
		Polyamide blend		

### **OSHA & ACGIH EXPOSURE LIMITS**

	TWA		STEL		CEILING		
	ppm	mg/m3	ppm	<b>mg/m</b> 3	ppm	mg/m3	
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 straw liquid with an amine 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 rritant.
- 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.

**ATTENTION:** No representation is made as to the accuracy or correctness of the information contained herein, other than to state that it is presented by this organization in good faith and we believe it to be correct and accurate per the limits of our understanding and training as of the date of first publication. The user or handler of this product is warned to take the most conservative and safest interpretation possible of all information contained herein and to use the most extreme personal protection measures and exposure limitations prudently dictated by the specific usage or handling situation, this MSDS information and good industrial safety and hygiene practices.

PAGE 2 OF 4 PAGES QuakeWrap, Inc.

## 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):

No data

LOWER EXPLOSION LIMIT (LEL):

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. Store in close 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.

**ATTENTION:** No representation is made as to the accuracy or correctness of the information contained herein, other than to state that it is presented by this organization in good faith and we believe it to be correct and accurate per the limits of our understanding and training as of the date of first publication. The user or handler of this product is warned to take the most conservative and safest interpretation possible of all information contained herein and to use the most extreme personal protection measures and exposure limitations prudently dictated by the specific usage or handling situation, this MSDS information and good industrial safety and hygiene practices.

# 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: Srtraw **BOILING POINT:** >200 °F ODOR: Amine MELTING POINT: Not Applicable Ph: No data SOLUBILITY IN WATER: Negligible

VAPOR PRESSURE: No data SPECIFIC GRAVITY: 0.99

### Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable CONDITIONS TO AVOID (IF UNSTABLE): None

INCOMPATIBILITY (MATERIALS TO AVOID): Acids, strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Contact with epoxy hardeners under uncontrolled conditions. May release excess heat and vapors.

# Section 11: TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY (LD50, RAT):

ACUTE DERMAL TOXICITY (LD50, RABBIT):

ACUTE INHALATION TOXICITY (LC50, RAT):

No data available

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

**ATTENTION:** No representation is made as to the accuracy or correctness of the information contained herein, other than to state that it is presented by this organization in good faith and we believe it to be correct and accurate per the limits of our understanding and training as of the date of first publication. The user or handler of this product is warned to take the most conservative and safest interpretation possible of all information contained herein and to use the most extreme personal protection measures and exposure limitations prudently dictated by the specific usage or handling situation, this MSDS information and good industrial safety and hygiene practices.

REV DATE: Feb. 2010

REV: 0

# Section 14: TRANSPORT INFORMATION

DOT NON-BULK SHIPPING NAME:

DOT BULK SHIPPING NAME: TECHNICAL SHIPPING NAME:

DOT HAZARD CLASS:

UN#:

PACKING GROUP: IMO SHIPPING DATA:

CAO/IATA SHIPPING DATA:

Epoxy Hardener - not regulated

Epoxy Hardener - not regulated NMFC Item 46030, Class 55

Not regulated

Not regulated

Not regulated

Epoxy Hardener - not regulated Epoxy Hardener - 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: 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 Copps Industries 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**

ATTENTION: No representation is made as to the accuracy or correctness of the information contained herein, other than to state that it is presented by this organization in good faith and we believe it to be correct and accurate per the limits of our understanding and training as of the date of first publication. The user or handler of this product is warned to take the most conservative and safest interpretation possible of all information contained herein and to use the most extreme personal protection measures and exposure limitations prudently dictated by the specific usage or handling situation, this MSDS information and good industrial safety and hygiene practices.