

## MATERIAL SAFETY DATA SHEET (MSDS)

### Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **QuakeBond™ J200TC Tack Coat Resin (Part “A”)**

CHEMICAL FAMILY: Epoxy Resin Mixture

SUPPLIER'S NAME: QuakeWrap, Inc., 2055 E. 17<sup>th</sup> Street, Tucson, AZ 85719 U.S.A.

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

### Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

| INGREDIENT                          | %       | CAS #       | EXPOSURE LIMITS    |
|-------------------------------------|---------|-------------|--------------------|
| Bisphenol A/Epoxy Reaction Products | 60-100  | 25085-99-8  | N/E                |
| Silicates                           | 15-25   | 112945-52-5 | N/E                |
| Glycidyl Ether                      | 3-7     | 2461-15-6   | N/E                |
| Epichlorohydrin                     | <1ppm   | 106-89-8    | 5ppm skin OSHA PEL |
| Lamp Black                          | 1-5     | 1333-86-4   | N/E                |
| Petroleum Distillates               | 0.2-1.5 | 64742-47-8  | N/E *              |

(\* 300ppm – supplier recommended TWA)

### Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Epoxy resin solution. Certain individuals may have pre-existing skin or respiratory conditions causing a sensitivity or allergy which manifests as various reactions. Heating or spraying this product or the mixed parts increases potential health hazards. Health and Safety personnel should examine handling procedures and remedy existing and potential health and safety hazards.

#### POTENTIAL HEALTH EFFECTS:

##### EYE:

- May cause irritation.

##### SKIN:

- May cause irritation. Low dermal absorption hazard.

##### INGESTION:

- May inflame or damage the G.I. tract. Large quantities may be harmful.

##### INHALATION:

- May cause irritation.

##### CHRONIC EFFECTS:

- Repeated exposure may cause irritation and sensitization.

##### SIGNS & SYMPTOMS:

- Skin rash, irritation, reddening, or eczema; breathing irritation or difficulty.

### Section 4: FIRST AID MEASURES

#### ◆ USE APPROPRIATE BLOOD-BORNE PATHOGENS PROTECTIONS ◆

##### EYE:

- Hold eyelids apart and flood with copious amounts of water. Seek medical attention.

##### SKIN:

- Remove excess product. Wash thoroughly with soap and water. If irritation persists, seek medical attention.

##### INGESTION:

- Do not induce vomiting unless directed by medical personnel. Seek medical attention.

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**INHALATION:**

- Remove to fresh air. Seek medical assistance.

### Section 5: FIRE FIGHTING MEASURES

FLASH POINT: 177°C, 350°F UEL: N/A LEL: N/A VAPOR DENSITY: N/A  
NFPA FLAMMABILITY RATING: 1 AUTOIGNITION: N/A  
COMBUSTION PRODUCTS: CO, CO<sub>2</sub>, NO<sub>x</sub>, & misc. hydrocarbons  
SPECIAL HAZARDS: Pre-sensitization to epoxy.  
EXTINGUISHING MEDIA: Use foam, CO<sub>2</sub>, dry chemical, water fog.  
FIRE FIGHTER INSTRUCTIONS: Stay upwind. Wear at least full bunker gear and SCBA.

### Section 6: ACCIDENTAL RELEASE MEASURES

Isolate spill area. Keep out of sewers and storm drains. Stop the leak and contain the spill. Vacuum, scoop, or absorb spill with non-combustible materials. Clean up spill residue with soap and water.

### Section 7: HANDLING AND STORAGE

Avoid skin and eye contact and breathing vapors by appropriate measures. Do not eat or smoke while handling this product. Wash thoroughly with mild soap and water after product handling or exposure.

Store in original sealed container at ambient temperatures (50°-90°F) in dry, well-ventilated areas.

### Section 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

For Personal Exposure Limits (PEL), Threshold Limit Values (TLV) or other exposure limits, see Sec. 2.  
GENERAL: Provide ventilation that will keep airborne concentration at a minimum.  
EYE/FACE: Safety glasses or splash goggles with face shield.  
SKIN: Butyl or nitrile rubber chemical gloves. Don chemical resistant clothing where exposure may occur.  
RESPIRATORY: NIOSH approved respirator with organic vapor/HEPA filter cartridges.  
OTHER: Decontaminate or discard clothing and materials that have come in contact with this product.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

|                         |                       |                                          |
|-------------------------|-----------------------|------------------------------------------|
| APPEARANCE: black paste | ODOR: slightly sweet  | PHYSICAL STATE: liquid                   |
| VAPOR PRESS: N.D.A.     | SPECIFIC GRAVITY: 1.2 | pH: N.D.A.                               |
| BOILING PT: N.D.A.      | MELT PT: N/A          | SOLUBILITY IN H <sub>2</sub> O: slightly |

### Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.  
INCOMPATIBILITY: Strong acids, caustics, oxidizers, and epoxy hardeners in an uncontrolled condition.  
HAZARDOUS POLYMERIZATION: Will not occur.  
HAZARDOUS DECOMPOSITION: None known, other than Sec. 5's Combustion Products.

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## Section 11: TOXICOLOGICAL INFORMATION

Oral: N.D.A.

Dermal: N.D.A.

Inhalation: N.D.A.

Carcinogens under OSHA, ACGIH, NTP, IARC, or Other: None  $\geq 0.1\%$ .

## Section 12: ECOLOGICAL INFORMATION

N.D.A.

## Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable federal, state, and local laws and regulations.

## Section 14: TRANSPORT INFORMATION

DOT: Not Regulated.

IATA: Not Regulated.

IMO: Not Regulated.

## Section 15: U.S. REGULATORY INFORMATION

OSHA: 29 CFR 1910.1200 Hazardous Chemical "Irritant", "Sensitizer".

TSCA: Contains listed ingredients CAS 2461-15-6.

CERCLA: Not Listed.

SARA III: Sec311 & 312 Immediate Health Hazard; Sec313 None.

CA PROP. 65 NOTICE: WARNING: This product contains a material known to the State of California to cause cancer. (Epichlorohydrin <1ppm)

VOLATILE MATTER: 3.7% Part "A", Parts "A" & "B" mixed 0.0% EPA METHOD 24.

NFPA: Health 1 Fire 1 Reactivity 0 Other N/A

## Section 16: CANADIAN REGULATORY INFORMATION

WHMIS: Hazard Classification: Class D2B Skin Sensitizer. Refer to MSDS for specific warnings.

WHMIS Symbols: Stylized T.

WHMIS Trade Secret Registry Numbers: None.

Hazardous Products Act Information: This product MSDS contains ingredients which are Controlled and/or on the Ingredient Disclosure List (HPA sections 13 and 14).

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

**END OF MSDS**

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## MATERIAL SAFETY DATA SHEET (MSDS)

### Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **QuakeBond™ J200TC Tack Coat Hardener (Part “B”)**  
CHEMICAL FAMILY: Polyethylenepolyamine Mixture

SUPPLIER'S NAME: QuakeWrap, Inc., 2055 E. 17<sup>th</sup> Street, Tucson, AZ 85719 U.S.A.  
EMERGENCY PHONE: 800/535-5053 (Infotrac) GENERAL INFORMATION: (866) QuakeWrap [782-5397]

### Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

| INGREDIENT                    | %      | CAS #       | EXPOSURE LIMITS |
|-------------------------------|--------|-------------|-----------------|
| Polyethylenepolyamine mixture | 25-35  | 029320-38-5 | N/E             |
| Tetraethylenepentamine        | 5-10   | 112-57-2    | N/E             |
| TETA / TOFA reaction products | 25-35  | 68082-29-1  | N/E             |
| Rubber Polymer                | 5-10   | 68683-29-4  | N/E             |
| Silicon Dioxide               | 1-5    | 112945-52-5 | N/E             |
| Benzyl Alcohol                | 5-10   | 100-51-6    | N/E             |
| TIO2                          | 1-3    | 13463-67-7  | N/E             |
| Petroleum Distillates         | .1-1.5 | 64742-47-8  | N/E *           |

(\* 300 ppm supplier recommended)

### Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Epoxy hardener solution. Certain individuals may have pre-existing skin or respiratory conditions causing a sensitivity or allergy which manifests as various reactions. Heating or spraying this product or the mixed parts increases potential health hazards. Health and Safety personnel should examine all handling procedures and remedy the existing and potential health and safety hazards.

#### POTENTIAL HEALTH EFFECTS:

##### EYE:

- May cause irritation.

##### SKIN:

- May cause irritation.

##### INGESTION:

- May inflame or damage the G.I. tract. Ingestion may be harmful.

##### INHALATION:

- May cause irritation.

##### CHRONIC EFFECTS:

- Repeated exposure may cause irritation and sensitization.

##### SIGNS & SYMPTOMS:

- Skin rash, irritation, reddening, or eczema; Breathing irritation or difficulty.

### Section 4: FIRST AID MEASURES

#### ◆USE APPROPRIATE BLOOD-BORNE PATHOGENS PROTECTIONS◆

##### EYE:

- Hold eyelids apart and flood with copious amounts of water. Seek medical attention.

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**SKIN:**

- Remove excess product. Wash thoroughly with soap and water. If irritation persists, seek medical attention.

**INGESTION:**

- Do not induce vomiting unless directed by medical personnel. Seek medical attention.

**INHALATION:**

- Remove to fresh air. Seek medical attention.

## Section 5: FIRE FIGHTING MEASURES

FLASH POINT: >138°C >280°F UEL: N.D.A.% LEL: N.D.A. VAPOR DENSITY: N.D.A.

NFPA FLAMMABILITY RATING: 1 AUTOIGNITION: N.D.A.

COMBUSTION PRODUCTS: CO, CO<sub>2</sub>, NO<sub>x</sub>, & misc. hydrocarbons

SPECIAL HAZARDS: Firefighters should wear butyl rubber boots, gloves, and body suit with SCBA. May generate toxic and irritating combustion products. Use DOT Response Guide #153.

EXTINGUISHING MEDIA: Use foam, CO<sub>2</sub> dry chemical, water fog.

FIRE FIGHTER INSTRUCTIONS: Stay upwind. Wear at least full bunker gear and SCBA.

## Section 6: ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment. Stop the leak and contain the spill. Vacuum, scoop, or absorb spilled product with non-combustible materials. Clean up spill residues with soap and water.

## Section 7: HANDLING AND STORAGE

Avoid skin and eye contact and breathing vapors or mists by appropriate measures. Do not eat or smoke while handling this product. Wash thoroughly with mild soap and water after product handling or exposure.

Store in original sealed container at ambient temperatures (65°-80°F) in dry, well-ventilated areas.

## Section 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

For Personal exposure Limits (PEL), Threshold Limit Values (TLV), or other exposure limits, see Sec.2.

GENERAL: Provide adequate ventilation that will keep airborne concentration at a minimum.

EYE/FACE: Safety glasses or splash goggles with face shield.

SKIN: Chemical resistant gloves. Don chemical resistant clothing where exposure may occur.

RESPIRATORY: NIOSH approved respirator with organic vapor/HEPA filter cartridges.

OTHER: Decontaminate or discard clothing and materials that have come in contact with this product.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: white paste

VAPOR PRESS: N.D.A.

BOILING PT: N.D.A.

ODOR: faint amine odor

SPECIFIC GRAVITY: 1.02

MELT PT: N/A

PHYSICAL STATE: liquid

pH: alkaline

SOLUBILITY IN H<sub>2</sub>O: slight

## Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

INCOMPATIBILITY: Strong oxidizers, acids, epoxy resins in uncontrolled conditions; contact with other unpolymerized monomers or polymers.

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HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION: None known, other than Sec. 5's Combustion Products.

### Section 11: TOXICOLOGICAL INFORMATION

Oral: N.D.A.

Dermal: N.D.A.

Inhalation: N.D.A.

Carcinogens under OSHA, ACGIH, NTP, IARC, or Other: None  $\geq 0.1\%$

### Section 12: ECOLOGICAL INFORMATION

N.D.A.

### Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable federal, state, and local laws and regulations.

### Section 14: TRANSPORT INFORMATION

DOT: Not Regulated.

IATA:

IMO:

### Section 15: REGULATORY INFORMATION

OSHA: 1910.1200 Hazardous Chemical "Irritant", "Sensitizer".

TSCA: Contains listed ingredients.

SARA III: Sec311 & 312 Immediate Health Hazard; Sec313 Chemicals above de minimus level: None.

CA PROP. 65 NOTICE: Not Listed

VOLATILE MATTER: Part "B" = 0.0% Mixed Parts "A" & "B" = 0.0% EPA Method 24.

NFPA: HEALTH 2 FIRE 1 REACTIVITY 0 OTHER N/A

### Section 16: CANADIAN REGULATORY INFORMATION

WHMIS: Hazard Classification: Class D Division 2B, Class D Division 2B Skin Sensitizer. Refer to MSDS for specific warnings.

WHMIS Symbols: Stylized T.

WHMIS Trade Secret Registry Numbers: None.

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

**END OF MSDS**

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