

MATERIAL SAFETY DATA SHEET (MSDS)

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **QuakeBond™ 111 DTM Powder (Part “A”)**

SUPPLIER'S NAME: QuakeWrap, Inc., 2055 E. 17th 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

Appearance: Dry Powder

Odor: None

Color: Gray

%VOC: 1.76

Weight: 8.5 Lbs per Gallon

Look & Feel: Cementitious Powder

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Product contains mechanical irritants to skin, eyes, and respiratory tract and may present a nuisance dust hazard. Avoid breathing dust. Avoid contact with skin. Wear protective clothing including gloves, goggles or safety glasses or safety glasses with side shields and NIOSH approved dust mask.

POTENTIAL HEALTH EFFECTS:

EYE:

- Redness, tearing, irritation.

SKIN:

- Drying, chapping, dermatitis.

INGESTION:

- N.D.A.

INHALATION:

- Sneezing, coughing, discolored sputum.

CHRONIC EFFECTS:

- N.D.A .

Section 4: FIRST AID MEASURES

◆ USE APPROPRIATE BLOOD-BORNE PATHOGENS PROTECTIONS ◆

EYE:

- Do not rub eyes. Held eyes wide open and wash eyes under slowly running water for at least fifteen minutes. Ensure no solid particles remain in creases of eyelids. If irritation persists, consult an ophthalmologist.

SKIN:

- Remove excess product. Remove contaminated clothing. Wash affected area thoroughly with mild soap and water. Wash contaminated clothing before reusing.

INGESTION:

- Treat symptomatically. If bowel obstruction occurs, immediately consult a physician.

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INHALATION:

- Remove to fresh air. Do not permit exposed person to remain in dusty environment without adequate reparatory protection. Seek medical attention.

Section 5: FIRE FIGHTING MEASURES

FLASH POINT: Product is not flammable or combustible. FLAMMABLE LIMITS: N/A
AUTOIGNITION: Does not ignite. SENSITIVITY TO MECHANICAL IMPACT: N/A
EXTINGUISHING MEDIA: Use media appropriate to primary source of fire. Otherwise, use dry chemical, carbon dioxide, water spray or foam.
HAZARDS TO FIRE FIGHTERS: None known.
FIRE FIGHTER PROCEDURES: No special procedures, avoid breathing fumes or dust. Keep upwind.

Section 6: ACCIDENTAL RELEASE MEASURES

Isolate the spill area. Cover and stabilize powder with plastic sheeting or covering material to avoid dispersion. Avoid run off from entering into storm swear and public waterways. Absorb on inert materials and place into container for proper disposal.

Section 7: HANDLING AND STORAGE

Avoid contact with eye, skin, clothing, and breathing powder or dust. Wash hands thoroughly with water and soap before eating. Emergency shower or water source should be easy accessible.

Store in original sealed container in temperatures between 35°-100°F in dry, well-ventilated areas. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.

Section 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

For Personal exposure Limits (PEL), Threshold Limit Values (TLV), or other exposure limits, see Sec.2.
GENERAL: Provide Local Exhaust Ventilation, Acceptable Mechanical, Clean water should be available.
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

N.D.A.

Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under all recommended conditions of use and storage.
INCOMPATIBILITY: Moderate to high moisture environments, as with any hydrate material. Avoid moisture and avoid freezing temperature environment.

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HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS COMBUSTION PRODUCTS: None known.

CONDITIONS TO AVOID: None known if stored and handled according to instructions.

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Section 11: TOXICOLOGICAL INFORMATION

Carcinogenic Effects: No carcinogenic effects.
Mutagenic Effects: No mutagenic effects.
Teratogenic Effects: No teratogenic effects.
Reproductive Effects: No reproductive toxicity effect

Section 12: ECOLOGICAL INFORMATION

Eco-toxicity: This organic compound has no known eco-toxicities.
Degradability: This inorganic compound has no know degradability. Avoid contamination of ground water or waterways.

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.
IMDG: Not Regulated.

Section 15: REGULATORY INFORMATION

OSHA HAZARD CATEGORY: Not a hazard.

Section 16: CANADIAN REGULATORY INFORMATION

N.D.A

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™ 111 DTM Emulsion (Part “B”)**

SUPPLIER'S NAME: QuakeWrap, Inc., 2055 E. 17th 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
Polyurethane Copolymer	40	Trade secret	N/E
Dimethylaminoethanol	1.5-2	Trade secret	N/E
N-Methyl-2-pyrrolidone	5-6.5	Trade secret	N/E

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Product may cause irritations to skin, eyes, respiratory tract, and digestive tract. Avoid ingestion. Avoid inhalation of fumes and mist. Avoid contact with skin. Wear protective clothing including gloves, goggles or safety glasses with side shields.

POTENTIAL HEALTH EFFECTS:

EYE:

- Redness, tearing, irritation, burning.

SKIN:

- Irritation, redness, burning, dermatitis.

INGESTION:

- Irritation of the digestive track, vomiting, diarrhea and excessive urination.

INHALATION:

- Irritation of nose and throat.

CHRONIC EFFECTS:

- N.D.A .

Section 4: FIRST AID MEASURES

◆ USE APPROPRIATE BLOOD-BORNE PATHOGENS PROTECTIONS ◆

EYE:

- Do not rub eyes. Held eyes wide open and wash eyes under slowly running water for at least fifteen minutes. Seek medical attention.

SKIN:

- Remove contaminated clothing. Clean affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.

INGESTION:

- Seek immediate physical attention.

INHALATION:

- Remove to fresh air. If the symptoms persist, seek immediate medical attention.

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Section 5: FIRE FIGHTING MEASURES

FLASH POINT RANGE: None to boiling. FLAMMABLE LIMITS: N/A AUTOIGNITION: N/A.
UNUSUAL FIRE/EXPLOSION HAZARDS: None are expected.
EXTINGUISHING MEDIA: This material will not burn. Use media appropriate to primary source of fire.
Otherwise, use dry chemical, carbon dioxide, water spray or foam.
HAZARDS TO FIRE FIGHTERS: None known. DOT FLAMIBILITY: Aqueous solution. Will not burn.
FIRE FIGHTER PROCEDURES: The use of a Self-Contained Breathing Apparatus (SCBA) is recommended for fire fighters. Water spray may be useful in minimizing vapors and cooling containers exposed to heat and flame.

Section 6: ACCIDENTAL RELEASE MEASURES

Stay upwind and away from the spill. Flush spilled material into suitable retaining areas or containers with large amount of water. Prevent spilled liquid from entering drains, sewers and waterways. After containment of the spilled product, pump it in into vapor-tight plastic or steel drums. Spilled material may be absorbed in sand or an inert absorbent. Contact fire authorities and appropriate state/local agencies.

Section 7: HANDLING AND STORAGE

Avoid contact with eye, skin, clothing, and inhalation of mists or fumes. Consumption of food and beverages should be avoided in work area where product is being used. After handling product, always wash hands and face thoroughly with soap and water before eating, drinking, or smoking.

Store in original sealed container and in a cool, dry, well ventilated area. Protect containers from physical damage.

Section 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

For Personal exposure Limits (PEL), Threshold Limit Values (TLV), or other exposure limits, see Sec.2.
GENERAL: Provide Local Exhaust Ventilation, Acceptable Mechanical, Clean water should be available.
EYE/FACE: Safety glasses or splash goggles with face shield.
SKIN: Use of heavy duty rubber gloves. Long sleeves buttoned collar, long pants extended over shoes.
RESPIRATORY: Use respiratory protection such as nuisance dust mask to minimize the exposure to mist.
OTHER: Decontaminate or discard clothing and materials that have come in contact with this product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White-milk like	ODOR: Amine odor	PHYSICAL STATE: liquid
VAPOR DENSITY: 23mbar at 20°C	SPECIFIC GRAVITY: N.D.A.	BULK DENSITY: 8.5 lbs/gal
BOILING PT: >212°F	EVAPORATION RATE: Slower than ether	
SOLUBILITY IN H ₂ O: In practically every proportion miscible		SOLVENT CONTENTS: 3.5%
VISCOSITY: 30-200m PA	PH: 7.5	

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Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable. CONDITIONS TO AVOID: None known.
HAZARDOUS POLYMERIZATION: Will not occur. HAZARDOUS DECOMPOSITION: None known.
INCOMPATIBILITY: Strong acids and bases, high temperature or freezing. At 212 F phase separation and possible coagulation.

Section 11: TOXICOLOGICAL INFORMATION

LD50/rat: 2,000mg/kg

Section 12: ECOLOGICAL INFORMATION

Eco-toxicity: LC50 >500mg/l.
Avoid contamination of ground water or waterways.

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.
IMDG: Not Regulated.

Section 15: REGULATORY INFORMATION

OSHA HAZARD CATEGORY: Not a hazard.

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