

MATERIAL SAFETY DATA SHEET



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NON-TRANSPORTATION
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 VOLTERRA INFORMATION PHONE: (602) 352-0888

1. CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT NAME.....: Tivoli Stone Bonder
 PRODUCT CODE.....: VAP#0007
 CHEMICAL FAMILY.....: Co-Polymer Emulsion
 CHEMICAL NAME.....: Vinyl Acetate Ethylene
 SYNONYMS.....: VAE, Concrete/Cement Admix,

2. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME	CAS NUMBER	EXPOSURE LIMITS	CONCENTRATION (%)
Water	7732-18-5	N.E.	75.0 – 80.0%
Vinyl Acetate/Ethylene Copolymer	Proprietary	N.E.	20.0 – 25.0 %

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3. HAZARDS IDENTIFICATION:

POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY.....: Inhalation; Skin Contact; Eye Contact.

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE INHALATION.....: May cause respiratory tract irritation.

CHRONIC INHALATION.....: None reported.

ACUTE SKIN CONTACT.....: Irritation of the skin may occur.

CHRONIC SKIN CONTACT.....: None reported.

ACUTE EYE CONTACT.....: Irritation of the cornea may occur.

CHRONIC EYE CONTACT.....: None reported.

ACUTE INGESTION.....: Irritation of the esophagus. Call a physician immediately.

CHRONIC INGESTION.....: Not Determined.

CARCINOGENICITY.(IARC).....: No.

Explanation of Carcinogenicity.....: N.A.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Asthma and most other ailments of the lungs.

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4. FIRST AID MEASURES:

FIRST AID FOR EYES.....: Flush eyes with clean of water for 15 minutes. Seek immediate medical attention.

FIRST AID FOR SKIN.....: Wash skin with water. If irritation persists, seek medical attention.

FIRST AID FOR INHALATION.....: Relocate to a clean air environment. If problems breathing are encountered, seek immediate medical attention.

FIRST AID FOR INGESTION.....: Do not induce vomiting. Victim should drink copious amounts of water and seek medical attention.

NOTE TO PHYSICIAN..:

EYES: None.

SKIN: None.

INGESTION: None.

INHALATION: None.

5. FIRE FIGHTING MEASURES:

FLASH POINT.....: Not Applicable - Setaflash(ASTM D-3243, D-3278, D-3828)

FLAMMABLE LIMITS.....: UPPER EXPLOSIVE LIMIT (UEL)(%): Not Flammable
LOWER EXPLOSIVE LIMIT (LEL)(%): Not Flammable

AUTO-IGNITION TEMPERATURE.....: Not Flammable - DIN 51794

EXTINGUISHING MEDIA.....: If dried polymer is ignited, A,B or C extinguishers.

SPECIAL FIRE FIGHTING PROCEDURES...: When dried polymer burns, water, carbon dioxide, and carbon monoxide are released. No special procedures are required, this material as provided is not flammable.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES.....: Material should be soaked up with an absorbent media such as sand, kitty liter or sawdust. The absorbant should then be disposed in accordance with local, state and federal regulations. Wash off the remainder of the material the material off property with plenty of water..

6. HANDLING AND STORAGE:

STORAGE TEMPERATURE (MIN/MAX).....: 40°F (4°C) / 90°F (32°C)

SHELF LIFE.....: 1-2 years at 77°F (25°C) when kept dry.

SPECIAL SENSITIVITY.....: None Known.

HANDLING/STORAGE PRECAUTIONS.....: Handle with adequate ventilation, avoid contact with skin, avoid breathing vapors when using. Do not eat drink or smoke.

8. PERSONAL PROTECTION:

REQUIRED WORK/HYGIENE PROCEDURES:

EYE PROTECTION REQUIREMENTS.....: Safety glasses (ANSI Z 87.1)

SKIN PROTECTION REQUIREMENTS.....: Rubber gloves.

VENTILATION REQUIREMENTS.....: Light air circulation

RESPIRATOR REQUIREMENTS.....: Not required under normal use.

ADDITIONAL PROTECTIVE MEASURES.....: Not Determined

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM.....: Liquid
 COLOR.....: White
 ODOR.....: Sweet Acrylic Odor
 ODOR THRESHOLD.....: Not Established
 MOLECULAR WEIGHT.....: Not Established
 pH.....: 5.0 – 6.0 s.u.
 BOILING POINT.....: >212°F
 MELTING/FREEZING POINT.....: 32°F
 VISCOSITY.....: Not Determined
 SOLUBILITY IN WATER.....: Completely dispersible.
 SPECIFIC GRAVITY.....: 1.07 g/cc
 VAPOR PRESSURE.....: 18.65 mm Hg
 VAPOR DENSITY.....: Not established (Air = 1)
 VOC BY WEIGHT.....: Not Applicable

10. STABILITY AND REACTIVITY:

STABILITY.....: Very Stable in almost all conditions. Coagulation may occur if allowed to freeze or boil.

HAZARDOUS POLYMERIZATION.....: Hazardous Polymerization cannot occur under any conditions.

INCOMPATIBILITIES.....: Strong bases, Strong Acids. Hydrofluoric Acid.

INSTABILITY CONDITIONS.....: Not Determined

DECOMPOSITION PRODUCTS.....: If pH is raised above 7.0 s.u. acetaldehyde may be released due to hydrolysis.

11. TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY

ORAL LD50.....: Not Established

DERMAL LD50.....: Not Established

INHALATION LC50...: Not Established

EYE EFFECTS.....: Not Established

SKIN EFFECTS.....: Not Established

SENSITIZATION.....: Not Established

OTHER ACUTE EFFECTS: No Determined

OTHER TOXICITY DATA.....: None

12. ECOLOGICAL INFORMATION:

NO ECOLOGICAL INFORMATION AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD.....: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method. If incinerated, toxic and corrosive combustion gases must be properly handled.

14. TRANSPORTATION INFORMATION:

TECHNICAL SHIPPING NAME.....: Not regulated by this mode of transportation.

FREIGHT CLASS BULK.....: Not Required

FREIGHT CLASS PACKAGE.....: Not Required

PRODUCT LABEL.....: Not Regulated

DOT (DOMESTIC SURFACE)

PROPER SHIPPING NAME.....: Not Regulated

HAZARD CLASS OR DIVISION.....: Not Regulated

UN/NA NUMBER.....: Not Regulated

PACKING GROUP.....: Not Regulated

DOT PRODUCT RQ lbs (kgs).....: Not Regulated

HAZARD LABEL(s).....: Not Regulated

HAZARD PLACARD(s).....: Not Regulated

14. TRANSPORTATION INFORMATION: (Continued)IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER.....: Not Regulated

ICAO / IATA (AIR)

HAZARD CLASS DIVISION NUMBER.....: Not Regulated

15. REGULATORY INFORMATION:

OSHA STATUS.....: Not Regulated.

TSCA STATUS.....: Not Regulated.

CERCLA REPORTABLE QUANTITY..: Not Regulated.

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES..: Not Regulated

SECTION 311/312

HAZARD CATEGORIES.....: No SARA Hazard.

SECTION 313

TOXIC CHEMICALS.....: Not subject to reporting requirements under Section 313.

RCRA STATUS.....: Not Regulated

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME	CONCENTRATION	STATE CODE
Acetaldehyde	Trace	CA
Formaldehyde	Trace	CA

CALIFORNIA PROPOSITION 65

This product contains a substance known to the State of California to cause cancer.

Acetaldehyde

Formaldehyde

MASSACHUSETTS SUBSTANCE LIST (MSL)

Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. To the best of our knowledge, this product contains no substances at a level which could require reporting under the statute.

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16. OTHER INFORMATION:

HMIS RATINGS: Health Flammability Reactivity

1 0 0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

*=Chronic Health Hazard

VOLTERRA's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS ratings are provided by VOLTERRA as a customer service.

REASON FOR ISSUE.....: 2nd Issue

PREPARED BY.....: A.D. Skelhorn.

ISSUE DATE.....: 12/28/2004

SUPERSEDES DATE.....: 03/11/2003

MSDS NUMBER.: VAP#0007

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