acrylic bonder

MATERIAL SAFETY DATA SHEET

TRANSPORTATION EMERGENCY

CALL CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

NON-TRANSPORTATION

ULTRAKOTE EMERGENCY PHONE: 602-272-5830
ULTRAKOTE INFORMATION PHONE: 602-272-5830

1. CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT NAME................................: Acrylic Bonder
PRODUCT CODE...............................: 107100050
CHEMICAL FAMILY............................: Waterborne acrylic emulsion
CHEMICAL NAME..............................: Acrylic polymer emulsion
SYNONYMS..........................................: Acrylic admix, mortar admix, acrylic glue, acrylic admixture

2. COMPOSITION / INFORMATION ON INGREDIENTS:

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS NUMBER</th>
<th>TLV-PEL EXPOSURE LIMIT</th>
<th>BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>N.A.</td>
<td>&lt; 50.0%</td>
</tr>
<tr>
<td>Acrylic resin</td>
<td>Proprietary</td>
<td>N.E.</td>
<td>&lt; 50.0%</td>
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</tbody>
</table>
3. HAZARDS IDENTIFICATION:

POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY: Inhalation, skin contact, eye contact, ingestion.

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE INHALATION: May cause respiratory tract irritation.

CHRONIC INHALATION: Not determined.

ACUTE SKIN CONTACT: Substance may cause slight skin irritation.

CHRONIC SKIN CONTACT: Not determined.

ACUTE EYE CONTACT: May cause slight irritation.

CHRONIC EYE CONTACT: Not determined.

ACUTE INGESTION: Irritating to mouth, throat and stomach.

CHRONIC INGESTION: Not determined.

CARCINOGENICITY: This product is not listed by NTP, IARC or regulated as carcinogen by OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

4. FIRST AID MEASURES:

FIRST AID FOR EYES: Flush eye with water for 15 minutes. Get medical attention.

FIRST AID FOR SKIN: Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. If irritation persists, seek medical attention.

FIRST AID FOR INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
FIRST AID FOR INGESTION: If swallowed, DO NOT induce vomiting. Give victim one glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Should vomiting occur, be sure to keep victims head below hips to avoid aspiration of vomit into lungs.

NOTE TO PHYSICIAN:
None

5. FIRE FIGHTING MEASURES:


FLAMMABLE LIMITS:
Upper explosive limit (UEL) (%): Not established.
Lower explosive limit (LEL) (%): Not established.

AUTO-IGNITION TEMPERATURE: Not determined - DIN 51794

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, water spray for large fires.

SPECIAL FIRE FIGHTING PROCEDURE: None.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Repeat sorbet/sweep cycle until the spill has dried up. Avoid run off to storm sewers or ditches which lead to waterways.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE (MIN/MAX)...............................................: 40ºF / 100ºF
SHELF LIFE..................................................................................: 12 months at 77ºF
SPECIAL SENSITIVITY....................................................................: Not determined
HANDLING/STORAGE PRECAUTIONS...........................................: None.

8. PERSONAL PROTECTION:

REQUIRED WORK/HYGIENE PROCEDURES: None established.

EYE PROTECTION REQUIREMENTS: OSHA 87.1Z safety glasses should be worn.
SKIN PROTECTION REQUIREMENTS: Latex gloves.

VENTILATION REQUIREMENTS: Allow for adequate natural ventilation when applying.

RESPIRATION REQUIREMENTS: An OSHA dust and particulate mask should be worn during mixing and handling of this product in dry state.

ADDITIONAL PROTECTIVE MEASURES: None.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM..............................................................: Liquid acrylic emulsion.
COLOR.............................................................................: White.
ODOR..............................................................................: Mild acrylic-nearly odorless.
ODOR THRESHOLD.........................................................: N.E.
MOLECULAR WEIGHT....................................................: N.D.
pH....................................................................................: 9.0 - 10.0 s.u.
BOILING POINT..............................................................: 220°F (100°C).
MELTING/FREEZING POINT.............................................: 32°F (0°C).
VISCOSITY........................................................................: 3-6 mPa.s
SOLUBILITY IN WATER..................................................: Miscible
SPECIFIC GRAVITY.........................................................: 1.05 g.cm³
BULK DENSITY...............................................................: 9.5 lbs/gal
VAPOR PRESSURE..........................................................: N.D.
VAPOR DENSITY.............................................................: N.E. (air = 1).
VOC BY WEIGHT............................................................: < 50.0 g/liter.

10. STABILITY AND REACTIVITY:

STABILITY: Very stable, no known reactions under normal conditions and environments.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITIES: Water, amines, strong bases, alcohols, metal compounds and surface active materials.

INESTABILITY CONDITIONS: Not determined.

DECOMPOSITION PRODUCTS: H₂O, CO, CO₂, NO₃

11. TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY
ORAL LD50.......................................................................: Not determined.
DERMAL LD50.........................................................: Not determined.
INHALATION LC50.................................................: Not determined.
EYE EFFECTS...........................................................: Not determined.
SKIN EFFECTS.........................................................: Not determined.
SENSITIZATION.......................................................: Not determined.
OTHER ACUTE EFFECTS.....................................: Not determined.
OTHER TOXICITY DATA.......................................: Not determined.

12. ECOLOGICAL INFORMATION:

NO ECOLOGICAL INFORMATION AVAILABLE.

13. DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. TRANSPORTATION INFORMATION:

TECHNICAL SHIPPING NAME.................................: Acrylic emulsion.
FREIGHT CLASS BULK.............................................: Not regulated.
FREIGHT CLASS PACKAGE...........................................: None.
PRODUCT LABEL...................................................: None.

DOT (DOMESTIC SURFACE)

PROPER SHIPPING NAME.................................: Acrylic emulsion.
HAZARD CLASS OR DIVISION............................: Not regulated.
UN/NA NUMBER....................................................: None.
PACKING GROUP....................................................: None.
DOT PRODUCT RQ LBS (KGS).............................: None.
HAZARD LABEL(S)................................................: None.
HAZARD PLACARD(S)............................................: None.

IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER...................: Not regulated.

ICAO / IATA (AIR)

HAZARD CLASS DIVISION NUMBER.................: Not regulated.

15. REGULATORY INFORMATION:

TSCA STATUS: This product contains no chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States.

This product has been reviewed according to the EPA “Hazard Categories” promulgated under sections 311 and 312 of the Superfund Amendment and Reauthorized Act of 1986 (SARA Tile III) and is considered, under applicable definitions, to meet the following categories:

SARA TILE III:
SECTION 302
EXTREMELY HAZARDOUS SUBSTANCES........................................: None.

SECTION 311 / 312
HAZARD CATEGORIES..................................................................: None.

SECTION 313
TOXIC CHEMICALS........................................................................: No SARA section 313 components.
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.

<table>
<thead>
<tr>
<th>COMPONENT NAME</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION</th>
<th>STATE CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
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</table>

CALIFORNIA PROPOSITION 65: To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

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 requires reporting under the statute.

16. OTHER INFORMATION:

HMIS RATINGS: Health 1 Flammability 0 Reactivity 0
ULTRAKOTE method of hazard communication is comprised of product labels and material safety data sheets. HMIS ratings are provided by ULTRAKOTE as a customer service.

REASON FOR ISSUE.............................................: Revision of format
PREPARED BY.........................................................: A.D. Skelhom.
ISSUE DATE...............................................................: 11/17/2006
SUPERSEDES DATE...............................................: 03/28/2000
MSDS NUMBER........................................................: 107100050

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