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MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTITY

MATERIAL NAME: Acrylex

SECTION 2. HAZARDOUS INGREDIENTS

May contain one or more of the following:

Hazardous Components Specific Chemical ID	OSHA PEL	ACGIH TLV	Other limits Recommended	% (optional)
ACRYLIC polymer in aqueous emulsion		none		20-30
Ammonia (7664-41-7)	35 ppm	25 ppm		<0.15

SECTION 3. PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 212 F  
FREEZING POINT: 32 F  
VAPOR PRESSURE (mm Hg) 17  
VAPOR DENSITY (AIR = 1): heavier  
pH: 9.2 – 10.0  
SPECIFIC GRAVITY (H2O =1): 1.02  
APPEARANCE AND COLOR: Milky white liquid. Water like consistency. Slight ammonia odor.  
SOLUBILITY IN WATER: Dilutable  
% VOLATILE BY VOLUME: ca 72%

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): None (non-combustible)

FLAMMABLE LIMITS: None

LEL:

UEL:

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES:

A self-contained breathing apparatus and full protective clothing should be worn when fighting fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Acrylic emulsions will not burn. They may splatter if temperature exceeds boiling point (212 F) Dried polymer films are capable of burning.

## SECTION 5. REACTIVITY DATA

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STABILITY: Stable

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY (MATERIALS TO AVOID): N/A

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Thermal decomposition may yield traces of carbon.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None

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## SECTION 6. HEALTH HAZARD ASSESSMENT

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Route(s) of Entry: Inhalation: No                      Skin: Yes                      Ingestion: Yes

Health Hazards (Acute and Chronic):

General: No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on its components.

Ingestion: Relative to other materials, a single dose of this product is practically non-toxic by ingestion. Base on acute toxicity studies for a number of compositionally similar acrylic emulsions the typical oral LD50 (rats): > 5.0/kg. This product is approved for incorporation into coatings in contact with potable water (U.S. EPA).

Eye Contact: Direct contact with emulsion may irritate human eyes. In studies of compositionally similar emulsions, rated as inconsequentially irritating to eyes (rabbit).

Skin Contact: Prolonged or repeated contact may irritate human skin. In skin studies (rabbit) of compositionally similar acrylic emulsions, rated as practically non-irritating.

Skin absorption: No systemically toxic effects are known to occur in human via absorption of this material through skin. The LD50 dermal (rabbits) is >5.0g/kg for compositionally similar acrylic emulsions.

Inhalation: Inhalation of vapor or mist can cause headache, nausea, and may irritate the nose, throat, or lungs. Monomer vapors may be generated if product is heated during processing operations. See Section 9.

Other effects or overexposure: No other adverse clinical effects are known to be associated with exposure to this mixture.

### EMERGENCY AND FIRST AID PROCEDURES:

Inhalation:

Remove victim to fresh air. If breathing is difficult administer oxygen. Consult a physician.

Ingestion:

Get medical attention.

Eye Contact:

Flush with water for at least 15 minutes. Obtain medical attention.

Skin Contact:

Wash with soap. Flush with water for at least 15 minutes.

## SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

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### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep unnecessary people away. Surfaces may be slippery, use caution. Dike and contain spill with inert material (sand, absorbent, earth, etc.) Transfer liquid to containers for recovery or disposal. Transfer solid and runoff out of sewers and bodies of water.

### WASTE DISPOSAL METHOD:

Discarded product is a non-hazardous waste under RCRA criteria (40 CFR, Part 261). However, even small amounts of emulsion will discolor bodies of water. Reuse uncontaminated material when possible. Landfill or incinerate solids and contaminated diking material in accordance with local, state, and federal regulations.

Container disposal: Drain containers completely. Empty containers may retain small amounts of residual product. Observe all hazard precautions when handling containers. Puncture or otherwise destroy container and dispose of as non-hazardous waste in accordance with local, state, and federal regulations.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep from freezing—product may coagulate. If frozen, thaw at room temperature. If solids are coagulated or “crystallized” product is unusable. Keep out of direct sunlight.

Residual monomer content present no problem under normal conditions of use, however high levels of monomer vapors can be released into work areas when emulsions are heat dried or cured (ovens, infrared lamp, etc.) if good ventilation is not used.

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## SECTION 8. CONTROL MEASURES

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**RESPIRATORY PROTECTION:** (SPECIFY TYPE) Not required if good ventilation is maintained. Use appropriate MSHA/NIOSH respirator when dusts or mists are generated for the types and concentrations of air contaminants encountered.

### VENTILATION:

Local exhaust: Suggested

Mechanical (General):

Special:

Other:

**PROTECTIVE GLOVES:** Rubber or neoprene

**EYE PROTECTION:** Safety glasses or chemical splash goggles

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Long trousers, long sleeved shirt, and appropriate footwear recommended to avoid skin contact.

**WORK/ HYGIENE PRACTICES:** Wash after handling. Foot note: This product is formulated for use with as an admixture (additive) to cement-based coatings, plasters, mortars, patching materials, etc., either as supplied or further diluted with water. Its primary function is to enhance the chemical and physical characteristics of the material it is added (eg. adhesion, compressive, tensile and flexural strengths, chemical resistance, etc.) Read and follow label directions and technical bulletin number 67 for this product.

The information herein is given in good faith but no warranty, expressed or implied, is made.