

Material Safety Data Sheet (PlexMate Acrylic Roof Coating)

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Date: 02/12/07

Product Identification

CHEMICAL FAMILY:
CHEMICAL NAME OR SYNONYM: Aqueous Acrylic Emulsion
FORMULA: The specific chemical formula for this material is a Trade Secret of INDUSTRIAL POLYMERS, INC.

Composition Information / Ingredients

WEIGHT %	TWA/TLV
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ACRYLIC POLYMER: 53-57	Not established
RESIDUAL MONOMERS (see Section X):	Trace
AMMONIA: 0.2max	25ppm (ACGIH)
FORMALDEHYDE (see Section IX):	0.1 max 1ppm C (ACGIH)
WATER: 43-47	

Physical Data

APPEARANCE: Milky-white liquid
ODOR: Mild ammoniacal
pH: 9-10
VISCOSITY: 15,000 cps max
MELTING/FREEZING POINT: 0C/32 F water
BOILING POINT: 100 C/212 F water
VAPOR PRESSURE (mm/Hg): 17 20 C/68 F
VAPOR DENSITY (air =1): 1 water
SOLUBILITY IN WATER: Dilutable
% VOLATILE (by weight): 43-47 water
SPECIFIC GRAVITY (water = 1): 1-1.2
EVAPORATION RATE (Butyl Acetate = 1): 1 water

Fire and Explosion Hazard Data

FLASH POINT: Non-combustible
AUTO IGNITION TEMPERATURE: N/A
LOWER EXPLOSION LIMIT (%): N/A
UPPER EXPLOSION LIMIT (%): N/A
SPECIAL FIRE FIGHTING PROCEDURES: N/A
UNUSUAL FIRE AND EXPLOSION HAZRDS: Material can splatter above 100 C (212 F). Polymer film can burn above 1200 C.

Health Hazard Data

Recommended INDUSTRIAL POLYMERS, INC. Health Guide TWA (maximum time-weighted-average concentration for 8-hour work period).

AMMONIA: 25 ppm
FORMALDEHYDE: 0.5 ppm
EFFECTS OF OVEREXPOSURE:
INHALATION: Vapor or spray mist can cause headache, nausea and irritation of the nose, throat and lungs.
SKIN CONTACT: Slightly irritating to skin.
EYE CONTACT: Possibly irritating to eyes.
EMERGENCY FIRST AID PROCEDURES:
INHALATION: Move subject to fresh air.
EYE CONTACT: Flush eyes with a large amount of water for at least 15 minutes. See physician if irritation persists.
SKIN CONTACT: Wash affected skin area with soap and water.

Reactivity Data

STABILITY: Stable
CONDITIONS TO AVOID: N/A
HAZARDOUS DECOMPOSITION PRODUCTS: N/A
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY MATERIALS TO AVOID: N/A

Material Safety Data Sheet (PlexMate Acrylic Roof Coating)**Spill or Leak Procedure**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Floor may be slippery, use care to avoid falling. Dike may contain spill with inert material, e.g., sand, earth. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

WASTE DISPOSAL METHODS: Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant liquid and flush to a chemical sewer. Landfill the solids and the contaminated diking material according to local, state, and federal regulations.

Special Protection Information

VENTILATION TYPE: Mechanical local exhaust ventilation at point of contaminant release.
RESPIRATORY PROTECTION: None required when permissible airborne concentrations are not exceeded.
PROTECTIVE GLOVES: Impervious
EYE PROTECTION: Chemical splash goggles (ANSI Z-87.1 or approved equivalent).
OTHER PROTECTIVE EQUIPMENT: N/A

Storage and Labeling

STORAGE TEMPERATURE: 60 C/140 F max. 1 C/34 F min.
PRECAUTIONARY LABELING: KEEP FROM FREEZING - PRODUCT STABILITY MAY BE AFFECTED.

Transportation Information

This material is not regulated as a DOT hazardous material.

TECHNICAL SHIPPING NAME: Water Base Latex Paint

DOT (DOMESTIC SURFACE)

PROPER SHIPPING NAME: Liquid Resin (Nonregulated)
HAZARD CLASS OR DIVISION: None
UN/NA NUMBER: None
FREIGHT CLASS: 55
PACKAGING GROUP: None
HAZARDOUS SUBSTANCE: None
DOT PRODUCT RQ lbs.: None

NOTE: Formaldehyde is an animal carcinogen; however, the risk of exposure to formaldehyde is negligible with this product. Under typical conditions of use airborne concentrations of formaldehyde will not exceed the TWA of 0.5 ppm.

Miscellaneous Information

NOTE: Under normal handling conditions the risk of exposure to residual monomer is negligible. Monomer vapors can be generated, however, when product is heated during processing operations. Maintain adequate ventilation where product is heated or cured. DO NOT inhale spray from product; use respirator if engineering controls are not adequate to main mist, vapor or dust concentrations of acrylic polymer at less than 109 g/m3.

PLEXMATE IS A TRADEMARK OF INDUSTRIAL POLYMERS, INC.

N/A – Not applicable C – Ceiling Value

The information contained herein is based on data considered to be accurate; however, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the Safety Data Sheet. Additional vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk of his use of the material.

Prepared by: C. Boddie
Approval date: 02/07
Supercedes 02/04