



MATERIAL SAFETY DATA SHEET

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IN CASE OF SPILL EMERGENCY, DAY OR NIGHT, CALL CHEMTREC 1-800-424-9300

SECTION I PRODUCT IDENTIFICATION

IDENTITY: PERMA-FLEX SURFACE SEALER

SECTION II COMPOSITIONAL INFORMATION

TWA/TLV

	<u>CAS Reg. No.</u>	<u>Wt. %</u>	<u>OSHA</u>	<u>ACGIH</u>
Acrylic Polymer	Non Hazardous	65 max.	n.e.	n.e.
Ethylene Glycol	107-21-1	4 max.	50 ppm	50 ppm
Ammonium Hydroxide	1336-21-6	1 max.	50 ppm	25 ppm
Water	Non Hazardous	30 max.	n.e.	n.e.

SECTION III PHYSICAL PROPERTY INFORMATION

Boiling Point: Not Determined
Freezing Point: 0°C/32°F
Viscosity KU: 95 - 105
Vapor Density: Less than 1
pH: 8 - 10
Specific Gravity (water=1): 1.04 ± 0.01
Solubility in Water: Dilutable
Appearance: Milky white, thick creamy liquid
Odor: Slight ammoniacal odor

SECTION IV FIRE AND EXPLOSION HAZARD INFORMATION

Non-Flammable, Non Explosive.
Material can splatter above 100°C/212°F
Dried polymer film can burn.

SECTION V

HEALTH HAZARD INFORMATION

RECOMMENDED WORK PLACE EXPOSURE LIMITS

TWA - See Section II, STEL = 35 ppm Ammonium Hydroxide; 50 ppm Ethylene Glycol

EFFECTS OF OVEREXPOSURE

Inhalation: Vapor or mist can irritate the nose, throat and lungs and cause headache, nausea, drowsiness, slurred speech, dizziness, stupor and unconsciousness. See "NOTE TO PHYSICIAN" in Section X.

Skin Contact: Irritating to skin upon repeated or prolonged contact.

Eye Contact: Slightly irritating to eyes.

Delayed Effects: Prolonged or repeated exposure to ethylene glycol can cause liver and kidney damage.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air.

Eye and Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. See physician if irritation persists. Wash affected skin areas with soap and water.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person. See "NOTE TO PHYSICIAN" in Section X.

SECTION VI

REACTIVITY INFORMATION

Under normal conditions the product is stable. However, temperatures above 177°C/350°F may cause the acrylic polymer to decompose. There are no hazardous decomposition by-products, nor will hazardous polymerization occur.

SECTION VII

SPILL OR LEAK PROCEDURE INFORMATION

Keep spectators away as area of leak or spill may be slippery. Dike and contain the spill or leak with inert materials, eg. sand, earth. Transfer the liquid to containers for recovery or disposal. If needed, the area can be flushed with water. All contaminated materials (product and absorbing medium) should be disposed of in accordance with pertinent Federal, State and local government regulations. Take extra care to insure none of the cleaning water gets into the sanitary or storm sewers and open bodies of water. Remove contaminated clothing promptly and wash affected skin areas with soap and water.

SECTION VIII

SPECIAL PROTECTION INFORMATION

Ventilation Type: There should be plenty of natural air flow in the work area. In the event of a spill in an enclosed area, utilize a mechanical system to induce air flow.

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SECTION VIII (continued) SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required if there is good ventilation; otherwise wear a respirator (MSHA/NIOSH approved or equivalent) suitable for concentration and type of contaminants encountered.

Protective Gloves: Normally not required.

Eye Protection: Normally not required, however clear safety glasses or goggles may be used (ANSI Z87.1 approved or equivalent).

Section IX STORAGE AND HANDLING INFORMATION

Storage Temperature: Max 60°C/140°F; Min 5°C/40°F

Precautionary Handling: Keep from freezing; product may coagulate or gel. Keep material from direct sunlight. Store in a sheltered area.

SECTION X TOXICITY INFORMATION

The effects of overexposure shown in Section V are based on information about similar materials and on toxicity profiles for the solvents used in this product. Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice at high concentrations.

Note to Physician: Ethylene glycol can cause liver and kidney damage. If swallowed, careful evacuation of the stomach is advisable.

SECTION XI ADDITIONAL INFORMATION

n.e. = Not established; n.a. = Not applicable/not available; n.d. = Not determined; NOS = Not Other Specified; RQ = Reportable Quantity; resp. = Respirable dust; TLV = Threshold Limit Value; PEL = Permissible Exposure Limit; STEL = Short Term Exposure Limits (15 minutes); TWA = Time Weighted Average (8 hour); ANSI = American National Standards Institute; REL = Recommended Exposure Limits (developed by the NIOSH); NIOSH = National Institute for Occupational Safety and Health; OSHA = Occupational Safety and Health Administration; ACGIH = American Conference of Governmental Industrial Hygienists; LEL = Lower Explosive Limit; UEL = Upper Explosive Limit; ppm = parts per million; TSCA = Toxic Substance Control Act; SARA = Superfund Amendments and Reauthorization Act; DOT = Department of Transportation; WHMIS = Workplace Hazardous Materials Information System (Canadian).

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