

Material Safety Data Sheet

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ULTRATHIN 2 Epoxy Hardener

SECTION I PRODUCT IDENTIFICATION

MANUFACTURER: PACE Technologies
1802 W. Grant Rd. No. 102
Tucson, AZ 85745

INFORMATION PHONE: 520-882-6598

EMERGENCY PHONE: CHEMTREC 800-424-9300 (US) Day or night
International call collect CHEMTREC 202-483-7616

TRADE NAME: ULTRATHIN 2 EPOXY HARDENER

CHEMICAL FAMILY: POLYAMINE BLEND

HMIS RATING: HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0 PERSONAL PROTECTION: B

HAZARD RATING:

LEAST: 0 SLIGHT: 1 MODERATE: 2 HIGH: 3 EXTREME: 4 B: GLOVES, SAFETY GLASSES

SECTION II PRODUCT/ INGREDIENTS

<u>COMPONENT(S)</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACIGH TLV</u>
POLYOXYALKYLENEAMINE	9046-10-0	NA	NA
N-AMINOETHYL PIPERAZINE	140-31-8	NA	NA
NONYL PHENOL	84852-15-3	NE	NE

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SECTION III HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

ACUTE: SKIN; Primarily redness and irritation.

CHRONIC: May cause skin sensitization.

ACUTE: INHALATION; Symptoms may include burning sensation, coughing and shortness of breath.

PRIMARY ROUTES OF EXPOSURE: X DERMAL/ EYE INHALATION INGESTION

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Chronic diseases of the skin.

SECTION IV EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT:

Flush eyes with water for at least 15 minutes. Take to a physician for medical treatment.

SKIN CONTACT:

Wash affected areas with soap and water. Remove contaminated clothing. Consult a physician if irritation persists.

INGESTION:

Drink one or two glasses of milk or water. Do not induce vomiting. Give medical attention immediately. Never give anything by mouth to an unconscious person.

SECTION V PHYSICAL DATA

SPECIFIC GRAVITY (H₂O=1): 0.98	BOILING POINT: > 200° F
VAPOR PRESSURE (MM HG): < 1 % VOLATILE BY VOL.: 0	FLASH POINT (PMCC): >200° F
SOLUBILITY IN WATER: NEGLIGIBLE	EVAPORATION RATE: NIL
APPEARANCE AND ODOR: COLORLESS LIQUID, MILD AMINE ODOR	VAPOR DENSITY (AIR=1) >AIR

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SECTION VI FIRE AND EXPLOSION DATA

EXTINDUISHING MEDIA: Water fog, carbon dioxide, foam or dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible autoignition or rupture.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Water may be used to cool unruptured containers.

SECTION VII REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: High temperatures, high humidity

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS, ACIDS, EPOXY RESINS IN UNCONTROLLED CONDITIONS

SECTION VIII PROTECTIVE MEASURES

RESPIRATORY PROTECTION:

Avoid breathing vapors/mists. Use approved chemical/mechanical filters designed to remove a combination of particulates and organic vapors in open and restricted areas when ventilation doesn't meet the requirements of 29 CFR 1910.134. Use approved airline type respirators or hoods in confined areas.

VENTILATION:

Sufficient ventilation in pattern and volume to keep the air contaminant concentration below applicable exposure limits. All application areas should be ventilated in accordance with OSHA regulation 29 CFR 1910.134

PROTECTIVE GLOVES:

Use neoprene or other impervious gloves to prevent skin contact.

EYE PROTECTION:

Use safety glasses with side shields as minimum protection.

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OTHER PROTECTIVE EQUIPMENT:

Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

HYGENIC PRACTICES:

Wash hands before eating, smoking or using toilet facilities. Do not smoke in any chemical handling and storage area. Food or beverages should not be consumed anywhere near where this product is handled or stored.

SECTION IX SPILL OR LEAK PROTECTION

SPILLS: Contain or remove with absorbent material. Avoid contact.

WASTE DISPOSAL METHOD: Disposal should be done in accordance with Federal (40 CFR Part 261), State and local regulations. Before attempting clean-up, refer to hazard caution information in other sections of the MSDS form. Use only licensed hazardous waste disposal companies.

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Do not store near heat or open flame.

OTHER: Empty container should not be reused.

SECTION XI TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Polyamines, liquid, corrosive, N.O.S. (Polypropylenediamine, Nonyl Phenol)

HAZARD CLASS OR DIVISION: 8

PACKING GROUP NUMBER: II

REQUIRED LABEL: CORROSIVE

UN NUMBER: UN2079

NOTE: This product contains nonyl phenol, which is a marine pollutant under 49 CFR 172.101, Appendix B.

TSCA STATUS: All components of this product are listed on, or exempted from the requirement to be listed on, the TSCA Inventory.

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SECTION XII SPECIAL NOTES

FOR COMPANY USE

THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE TAKEN FROM SOURCES BELIEVED TO BE ACCURATE AS OF THE DATE HEREOR: HOWEVER PACE TECHNOLOGIES MAKES NO WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO THE ACCURACY OF THE INFORMATION OR THE SUITABILITY OF THE RECOMMENDATIONS, AND ASSUMES NO LIABILITY TO ANY USER THEREOF.

NA = Not Available

na = not applicable

NE = Not Established

ND = Not Determine

mppcf = million parts/ ft³

mg/M³ = milligrams per cubic meter

DATE PREPARED: 11/01/02
