Section 1: Identification

PRODUCT INDENTIFIER: EPOXY-ELITE HARDENER

CHEMICAL FAMILY: TETA/Propylene oxide reaction products (CAS No. 26950-63-0)

EMERGENCY PHONE: CHEMTREC 800-424-9300 (US) Day or night

Customer No. 16568

MANUFACTURER:
PACE Technologies
3601 E. 34th St., Tucson, AZ 85718
Tucson, Arizona USA
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Section 2: Hazard(s) Identification

GHS CLASIFICATION:	Skin corrosion, 2, H315 Serious eye damage / eye irritation, 1, H318 Skin sensitization, 1, H317 Hazardous to the aquatic environment – Acute Hazard, 3, H402 Hazardous to the aquatic environment – Chronic Hazard, 3, H412
PICTOGRAM(s):	
SIGNAL WORD:	Danger
HAZARD STATEMENTS:	**Hazard Statement(s):** H302 - Harmful if swallowed H312 – Harmful in contact with skin H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H318 – Causes serious eye damage H330 - Fatal if inhaled H335 - May cause respiratory irritation
PRECAUTIONARY STATEMENTS:	**Precautionary Statement(s):** **Preventions:** P260- Do not breathe P261-Avoid breathing dust/fume/gas/mist/vapors/spray. P264- Wash skin thoroughly after handling. P270- Do not eat, drink or smoke when using this product. P271-Use only outdoors or in a well-ventilated area

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	P272-Contaminated work clothing should not be allowed out of the workplace P280- Wear protective gloves/protective clothing/eye protection/face protection. P284- P403+P233=Store in a well-ventilated place. Keep container tightly closed. **Response:** P301+312- IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell. P301+P330+P331- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+352- IF ON SKIN: wash with plenty of soap and water. P304+P340- IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310- Immediately call a POISON CENTER or doctor/physician. P312- Call a POISON CENTER or doctor/physician if you feel unwell. P320- Specific treatment is urgent (Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention). P321- Specific treatment (Immediately flush eyes with plenty of water for 15 minutes while holding eyelids open. Rinse continuously with water while on way to get medical attention). P322- Specific measures (Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15-minutes. Use soap if available or follow by washing with soap and water). P333+P313-IF SKIN irritation or rash occurs: Get medical advice/attention. P330- Rinse mouth. P363- Wash contaminated clothing before reuse. **Storage:** P403+P233-Store in a well-ventilated place. Keep container tightly closed. P405-Store locked up **Disposal:** P501- Dispose of contents/container to Federal, State and Local Regulations.

Section 3: Composition/Information on Ingredients

CHEMICAL NAME	CAS NO.	%
TETA/Propylene oxide reaction products	26950-63-0	<= 60
Benzyl Alcohol	100-51-6	<= 30
Triethylenetetramine	112-24-3	<= 20
Alkyl ether amine	39423-51-3	<= 20

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Section 4: First-Aid Measures

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

SKIN CONTACT: Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15-minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Get medical attention.

EYE CONTACT: Immediately flush eyes with plenty of water for 15 minutes while holding eyelids open. Rinse continuously with water while on way to get medical attention.

INGESTION: Do not induce vomiting. Give one glass of water unless victim is drowsy, convulsing, or unconscious. Seek medical attention immediately.

NOTES TO PHYSICIAN

SYMPTOMS: Irritation as noted above. Lung damage (scarring, bronchitis, emphysema) may be evidenced by shortness of breath, especially on exertion, and may be accompanied by chronic cough. Skin sensitization (allergy) may be evidenced by rashes, especially hives.

Section 5: Fire-Fighting Measures

SUITABLE EXTINGUISHING MEDIA: Use water fog, “alcohol foam”, dry chemical or carbon dioxide.

Water or fog may cause frothing which can be violent, especially if sprayed into containers of hot or burning liquid.

SPECIFIC HAZARDS DURING FIRE FIGHTING: Material will not burn unless preheated. Delayed lung damage (pulmonary edema) can be experienced after exposure to combustion products, sometimes hours after the exposure. Nitrogen oxides and other potentially hazardous nitrogen-containing compounds may be released upon combustion.

Cool fire exposed containers with water.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.

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Section 6: Accidental Release Measures

PERSONNEL PRECAUTIONS: Corrosive.

Prevent all bodily contact with spilled material.
Shut off leaks, if possible without personal risk.
Remove ignition sources.

ENVIRONMENTAL PRECAUTIONS: Dike and contain.
Contain run-off and dispose of properly.
Prevent from entering into drains, ditches or rivers.

CLEAN-UP METHODS – SMALL SPILLAGE: Take up with an absorbent material and place in non-leaking containers.
Seal tightly for proper disposal.

CLEAN-UP METHODS – LARGE SPILLAGE: Remove with vacuum trucks or pump to storage/salvage vessels.
Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal.
Flush area with water to remove trace residue.

ADDITIONAL ADVICE: Notify authorities if any exposures to the general public or environment occurs or is likely to occur.
See Section 13 for information on disposal.

Section 7: Handling and Storage

ADIVCE ON SAFE HANDLING: Do not pressurize drum containers to empty them. Heating this curing agent above 300 Deg. F in the presence of air may cause slow oxidative decomposition; above 500 Deg. F, polymerization may occur. Some epoxy resins can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants. Fumes and vapors from these thermal and chemical decompositions vary widely in composition and toxicity. Do not breathe fumes. Use a NIOSH-approved respirator as required to prevent overexposure. In accord with 29 CFR.1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

STORAGE:

REQUIREMENTS FOR STORAGE AREAS AND CONTAINERS: Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

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Section 8: Exposure Controls/ Personal Protection

PROTECTIVE MEASURES: Wear appropriate respirator and full-body protective clothing.

ENGINEERING MEASURES: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for emergency use.

EYE PROTECTION: Do not get in eyes.
Wear chemical goggles if there is potential contact with eyes.

SKIN AND BODY PROTECTION: Do not get on skin, on clothing.
Wear chemical-resistant protective clothing such as gloves, outer clothing or apron, overshoes and a face-shield suitable to potential exposure.

RESPIRATORY PROTECTION: Do not breathe vapors or mists.
Use a NIOSH-approved respirator as required to prevent overexposure.
In accord with 29 CFR 1910.134
Use either a full-face, atmosphere-supplying respirator or air-purifying respirator for organic vapors.
Avoid breathing vapors which may be produced under some conditions such as heating or applications of uncured material in large surface areas (e.g., flooring and painting).
Avoid breathing aerosols and mists which may be formed by various methods of application.

EXPOSURE GUIDELINES:

Components with workplace control parameters	Regulation	Exposure time	Value	CAS No.
TETA/Propylene oxide reaction products	N/A	N/A	-	26950-63-0
Triethylenetetramine	N/A	N/A	-	112-24-3
Alkyl ether amine	N/A	N/A	-	39423-51-3
Benzyl Alcohol	N/A	N/A	-	100-51-6

Section 9: Physical and Chemical Properties

FORM: Liquid
COLORS: Colorless

BOILING POINT: 199 deg. C (390 deg F) at 760 mm/Hg

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VAPOR PRESSURE:	<1.33 mbar at 20 deg. C (68 deg F)
RELATIVE VAPOR DENSITY:	>1
SOLUBILITY IN WATER:	Completely miscible.
ODOR:	Amine
RELATIVE DENSITY:	1.04 g/l
FLASH POINT:	150.67 deg C (Pensky-Martens)
LOWER EXPLOSION LIMIT:	1.9 % (V)
UPPER EXPLOSION LIMIT:	11.9 % (V)
OTHER PHYSICO-CHEMICAL PROPERTIES:	The above properties are typical values only and do not constitute a specification.

Section 10: Stability and Reactivity

CONDITIONS TO AVOID:	Heat, flames and sparks.
MATERIALS TO AVOID:	Can react vigorously with strong oxidizing agents, strong Lewis or mineral acid, and strong mineral and organic bases, especially primary and secondary aliphatic amines. Reacts with considerable heat release with some curing agents.
HAZARDOUS DECOMPOSITON PRDUCTS:	Nitrogen oxides, carbon monoxide and unidentified organic compounds may be formed during combustion.
HAZARDOUS REACTIONS:	Stable under normal use conditions. Hazardous polymerization will not occur.

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Section 11: Toxicological Information

CHRONIC HEALTH HAZARD:

Components	CAS no.	Regulation	Value	Remarks
Triethylenetetramine	112-24-3	LD50 (oral rat) LD50 (dermal rabbit) ATE US (oral) ATE US (dermal)	1716 mg/kg 1465 mg/kg 1716 mg/kg 1465 mg/kg	This component has not been classified by the International Agency for Research on Cancer (IARC).
Alkyl ether amine	39423-51-3	LD50 (oral rat) LD50 (dermal rabbit) ATE US (oral) ATE US (dermal)	550 mg/kg >1000 mg/kg 550 mg/kg 1100 mg/kg	This component has not been classified by the International Agency for Research on Cancer (IARC).
Benzyl Alcohol	100-51-6	LD50 (oral rat) LD50 (dermal rabbit) ATE US (oral) ATE US (dermal)	1620 mg/kg >2000 mg/kg 1620 mg/kg 11 mg/kg	This component has not been classified by the International Agency for Research on Cancer (IARC).

POTENTIAL HEALTH HAZARD:

INHALATION: Vapor/mists may be corrosive to upper respiratory tract.
Repeated or prolonged exposure can result in lung damage.

SKIN: Corrosive to the skin.
May be toxic if absorbed through skin.
May cause skin sensitization.

EYES: Corrosive to the eyes and may cause severe damage including blindness.
Vapors may be irritating.

INGESTION: Not likely to be a relevant route of exposure.
Corrosive and may cause severe and permanent damage to mouth, throat and stomach.
May be moderately toxic if swallowed.

AGGRAVATED MEDICAL Preexisting eye, skin and respiratory disorders may be aggravated by

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CONDITONS: exposure to this product.

Section 12: Ecological Information

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

BIODEGRADABILITY: No data available

ECOTOXICITY EFFECTS

TOXICITY TO FISH: No data available

Section 13: Disposal Considerations

If this material becomes a waste, it would not be a hazardous waste by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with local and federal regulations.

Section 14: Transportation Information

DOT	UN/NA-No. Class Packing Group ERG No. Proper shipping name	Not regulated for transport
IMDG	UN/NA-No. Class Packing Group EmS Proper shipping name	Not regulated for transport
IATA Cargo	UN/NA-No. Class Packing Group ERG No. Proper shipping name	Not regulated for transport

Section 15: Regulatory Information

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

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NOTIFICATION STATUS

AICS:	Listed
DSL:	Listed
INV (CN):	Listed
DCS (JP):	Listed
TSCA:	Listed
EINECS:	Listed
KECI (KR):	Listed
PICCS (PH):	Listed
NOTIFICATION STATUS LEGEND	y=Yes (Listed); AICS = Australian Inventory of Chemical Substances; DSL = Canadian Domestic Substances List; INV (CN) = Inventory of Existing Chemicals Substances in China; ENCS (JP) = Japanese Existing and New Chemical Substances; TSCA = Toxic Substances Control Act; EINECS = European Inventory of New and Existing Chemicals; KECI (KR) = Korean Existing Chemicals Inventory; PICCS (PH) = Philippine Inventory of Chemicals and Chemical Substances

U.S. EPS CERCLA HAZARDOUS SUBSTANCES (40 CFR 302)

DIETHYLENETRIAMINE	No RQ

SARA 311/312 HAZARDS

Acute Health Hazard

U.S. EPA EMERGENCY PLANNING AND COMMUNIT RIGHT-TO-KNOW ACT (EPCRA) SARA TITLE III SECTION 313 TOXIC CHEMICALS (40 CFR 372.65) – SUPPIER NOTIFICATION REQUIRED

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DIETHYLENETRIAMINE	No Ed minimis Concentration

U.S. EPA EMERGENCY PLANNING AND COMMUNIT RIGHT-TO-KNOW ACT (EPCRA) SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A)

DIETHYLENETRIAMINE	Threshold Planning Quantity: No TPQ
DIETHYLENETRIAMINE	Reportable quantity: No RQ

NEW JERSEY RIGHT-TO-KNOW CHEMICAL LIST

DIETHYLENETRIAMINE	Not listed

PENNSYLVANIA RIGHT-TO-KNOW CHEMICAL LIST

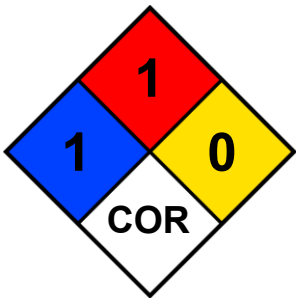
DIETHYLENETRIAMINE	Not listed

MASSACHUSETTS RIGHT-TO-KNOW CHEMICAL LIST

DIETHYLENETRIAMINE	Not listed

Section 16: Other Information

16.1 NFPA 704



Top, Flammability: 1 – Slight Hazard

Left, Health Hazard: 1 – Slight Hazard

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Right, Reactivity: 0 – Minimal Hazard

Bottom, Special Notice: COR- Corrosive

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