

1. Identification

Product Identifier: **Envirotex Lite Hardener**
 Use: Epoxy Curative. For Industrial/Professional use only.
 Manufacturer: Polytek Development Corp.
 55 Hilton Street, Easton, PA 18042
 Phone Number: 800-755-8568 (8 a.m. to 4 p.m. CST)
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 +1 703-527-3887
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2. Hazards Identification

GHS Classification:

Acute Toxicity (Oral) – Category 4
 Acute Toxicity (Dermal) – Category 4
 Skin Corrosion – Category 1B
 Serious Eye Damage – Category 1
 Skin Sensitization – Category 1
 Reproductive Toxin – Category 2
 Hazardous to the Environment – Acute Hazard Category 1
 Hazardous to the Environment – Chronic Hazard Category 1

Label Elements: Danger



Hazard Phrases

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.
 H361 Suspected of damaging fertility or the unborn child.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary Phrases

P203 Obtain, read, and follow all safety instructions before use.
 P260 Do not breathe fumes, vapors, or mists.
 P270 Do not eat, drink, or smoke when using this product.
 P273 Avoid release to the environment.
 P280 Wear protective gloves, protective clothing, and eye protection.
 P301+P317 IF SWALLOWED: Get medical help.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P302+P361+P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P317 Get medical help.
 P318 IF exposed or concerned, get medical advice.
 P333+P317 If skin irritation or rash occurs: Get medical help.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P363 Wash contaminated clothing before reuse.
 P391 Collect spillage.
 P405 Store locked up.
 P501 Dispose of contents and container in accordance with local, regional, and national regulations.

Supplemental Information: This is one part of a two-part system. Read and understand the hazard information on the resin before use.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Phenol, 4-nonyl, branched	84852-15-3	50-60
Propylidynetrimethanol, propoxylated, reaction products with ammonia	39423-51-3	20-30
2-Piperazin-1-ylethylamine	140-31-8	0-10
Polyoxypropylenediamine	9046-10-0	0-10
Exact concentrations are withheld as trade secret. Other ingredients are not listed because they are either not hazardous or are below concentration/cut-off thresholds.		

4. First-Aid Measures

Eye Contact: Rinse thoroughly with water for at least 15 minutes, holding the eyelids open to be sure the material is washed out. Remove contact lenses if present and easy to do. Get medical attention immediately.

Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention immediately. Launder clothing before reuse. Discard items that cannot be decontaminated.

Inhalation: If inhaled, remove to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms develop or persist.

Ingestion: Rinse mouth. Do not induce vomiting. Get medical attention immediately.

Most Important Symptoms/Effects: Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Indication of Immediate Medical Attention/Special Treatment: Get immediate emergency medical help if on skin, in eyes or ingested.

5. Fire-Fighting Measures

Extinguishing Media: Use water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or eruption.

Specific Hazards: Not classified as flammable or combustible. Product will burn under fire conditions.

Special Protective Equipment & Precautions for Fire-Fighters: Wear positive pressure, self-contained breathing apparatus, and full-body protective clothing. Cool fire-exposed containers with water.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency

Procedures: Clear non-emergency personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing fumes or vapors.

Methods and Materials for Containment and Cleanup: Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid releases to the environment.

7. Handling and Storage

Safe Handling: Do not handle until all safety precautions have been read and understood. Do not breathe fume, vapor, or mist. Do not get this material in your eyes, on your skin, or on your clothing. Avoid contact during pregnancy/while nursing. Provide adequate ventilation. Use personal protective equipment as required. Wash contaminated clothing before reuse. When using, do not eat, drink, or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Avoid prolonged exposure. Keep out of reach of children.

Safe Storage: Keep out of reach of children. Store locked up. Store in tightly closed original container in a dry, cool, and well-ventilated place. Store away from incompatible materials.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: None established.

Ventilation: Use with adequate general or local exhaust ventilation to minimize exposure levels.

Respiratory Protection: If ventilation is inadequate, use a properly fitted, NIOSH-approved, air-purifying respirator with organic vapor cartridges. For higher exposures or in an emergency, use a supplied-air respirator. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

Skin Protection: Wear impervious gloves, such as butyl rubber or nitrile rubber.

Eye Protection: Wear chemical safety glasses or goggles.

Other Protective Measures: An eye wash facility and washing facility should be available in the work area. Avoid skin contact. Follow good Industrial Hygiene practices.

9. Physical and Chemical Properties

Appearance: Liquid, slight yellow to clear

Odor: Ammonia-like

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

Boiling Point: 431.6°F (222.0°C)

Flash Point: 212°F (100°C)

Evap. Rate: No data available

Flamm. Limits: No data available

Vapor Pressure: < 1 mm Hg

Vapor Density: No data available

Relative Density: 0.97

Solubility: Slightly soluble

Partition Coefficient: n-octanol/Water: No data available

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: No data available

10. Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Avoid temperatures exceeding the flash point. Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Avoid incompatible materials and intense heat.

Incompatible Materials: Avoid acids and strong oxidizing agents

Hazardous Decomposition Products: None expected under normal conditions of use.

11. Toxicological Information

Eye Contact: Causes serious eye damage.

Skin Contact: Harmful in contact with skin. Causes severe skin burns. May cause allergic reaction to skin.

Inhalation: May cause mild respiratory irritation.

Ingestion: Harmful if swallowed.

Chronic Health Effects: May cause allergic skin reaction.

Acute Toxicity Values: For Nonyl Phenol (CAS 84852-15-3):

Oral LD₅₀ (rat): 1,246 mg/kg

For Propylidynetrimethanol, propoxylated, reaction products with ammonia (CAS 39423-51-3):

Oral LD₅₀ (rat): 581.76 mg/kg

Dermal LD₅₀ (rabbit): 1,145 mg/kg

For 2-Piperazin-1-ylethylamine (CAS 140-31-8):

Dermal LD₅₀ (rabbit): 880 mg/kg

For Polyoxypropylenediamine (CAS 9046-10-0):

Oral LD₅₀ (rat): 3,069 mg/kg

Dermal LD₅₀ (rabbit): 3,170 mg/kg

Respiratory Sensitization: Components are not classified as respiratory sensitizers.

Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Components are not classified as mutagens.

Carcinogenicity: Components are not classified as carcinogens.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity: No data available.

12. Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects. Avoid release to the environment.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: Low potential for bioaccumulation.

Mobility in Soil: No data available.

13. Disposal Considerations

Minimize waste generation. Dispose of with a licensed waste disposal contractor. Do not dispose of down the drain. Dispose according to local, state, and federal regulations.

14. Transport Information

U.S.: UN1760, Corrosive liquid, n.o.s (nonyl phenol, n-aminoethylpiperazine), 8, III. (LTD QTY if shipped in quantities of 5L (1.32 gal) or less.)

IMDG & IATA: UN1760, Corrosive liquids, n.o.s (nonyl phenol, n-aminoethylpiperazine), 8, III, MARINE POLLUTANT.

Emergency Shipping Information: Call CHEMTREC, 800-424-9300 or +1-703-527-3887.

15. Regulatory Information

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product is not subject to these reporting requirements. Some states have more strict reporting requirements.

SARA TITLE III Section 311/312: Acute/Chronic Health

Section 313 Toxic Chemicals: This product contains chemicals subject to SARA Title III Section 313 reporting requirements:

4-nonyl phenol, branched (CAS 84852-15-3) 50-60%

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: Components in this product are listed on TSCA.

STATE REGULATIONS:

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer and/or reproductive harm. www.P65Warnings.ca.gov

16. Other Information

Training Advice: All personnel using/handling this product should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.

Recommended Uses and Restrictions: This product is intended for industrial/professional use only.

SDS Revision Notes: GHS Format: October 28, 2022; Reviewed and updated: September 13, 2023

Disclaimer: The information contained herein is considered accurate; however, Polytek® Development Corp. makes no warranty regarding the accuracy of the

information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.