

1. Identification

Product Identifier: **PolyCure 1212**
 Product Code(s): 1212
 Use: Amine curative for epoxy system. For Industrial/Professional use only.
 Manufacturer: Polytek Development Corp.
 55 Hilton St., Easton, PA 18042
 Phone Number: 610-559-8620 (9 a.m. to 5 p.m. EST)
 Emergency Phone: CHEMTREC 800-424-9300 or +1 (703) 527-3887
 E-mail: sds@polytek.com

2. Hazards Identification

GHS Classification:

Acute Toxicity – Oral Category 4
 Acute Toxicity – Dermal Category 4
 Acute Toxicity – Inhalation Category 4
 Skin Corrosion Category 1B
 Eye Damage Category 1
 Skin Sensitization Category 1
 Specific Target Organ Toxicity – Single Exposure Category 3
 Toxic to Reproduction Category 2
 Aquatic Toxicity - Chronic Category 3

Label Elements: Danger



Hazard Phrases

H302+312+332 Harmful if swallowed, in contact with skin and if inhaled.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
 H361 Suspected of damaging fertility or the unborn child.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary Phrases

P202 Do not handle until all safety precautions have been read and understood.
 P260 Avoid breathing vapors/mists/spray.
 P264 Wash hands and skin contact areas thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace
 P273 Avoid release to the environment.
 P280 Wear protective gloves and eye and face protection.
 P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+361+353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER or doctor if you feel unwell.
 P333+313 If skin irritation or rash occurs, Get medical attention.
 P363 Wash contaminated clothing before reuse.
 P403+233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.
 P501 Dispose of contents and container in accordance with local, regional and national regulations.

Supplemental Information: None.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Diethylenetriamine	111-40-0	40-70
Bisphenol A	80-05-7	25-35

4. First-Aid Measures

Eye Contact: Rinse immediately and thoroughly with water, holding the eyelids open to be sure the material is washed out. Rinse for at least 15 minutes. Get medical attention if irritation persists.
Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if rash develops or irritation persists.
Inhalation: Remove person to fresh air. Get medical attention if symptoms persist.
Ingestion: Rinse mouth. Do NOT induce vomiting. Drink several glasses or water. Get medical attention immediately.
Most Important Symptoms/Effects: Severe skin and eye burns. Harmful if swallowed.
Indication of Immediate Medical Attention/Special Treatment: Corticoid preparations and antihistamine may assist in treating skin and mucous membrane exposures. Material is corrosive and may cause stricture: if lavage is performed, suggest endotracheal and/or esophagosopic control. If burn is present, treat as thermal burn after decontamination. No specific antidote; treat symptomatically.

5. Fire-Fighting Measures

Extinguishing Media: Use water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream.
Specific Hazards: Not classified as flammable or combustible. Product will burn under fire conditions. Combustion products may be harmful to health and include nitric acid and ammonia.
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 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: Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep container closed when not in use.
Safe Storage: Store indoors at temperatures below 120°F. Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed. Store locked up.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: For diethylenetriamine:
 ACGIH TLV: 4.3 mg/m³ (1 ppm), skin notation.

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 and protective clothing/apron.

Eye Protection: Wear chemical safety 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: Clear, yellow to amber liquid

Odor: Amine

Odor Threshold: No data available

pH: Alkaline

Melting Point: No data available

Boiling Point: >207°C

Flash Point: >99°C

Evap. Rate: No data available

Flamm. Limits: <1

Vapor Pressure: <1 mm Hg @ 20°C

Vapor Density: >1 (Air = 1)

Relative Density: 1.0-1.1 @ 25°C

Solubility: Slight in water

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

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 100-115 cP @ 25°C

10. Stability and Reactivity

Reactivity: No specific data is available for this product.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: When mixed with epoxy resins (e.g., PolyPoxy) in masses exceeding 1 lb, irreversible polymerization with potentially dangerous heat buildup will occur.

Conditions to Avoid: No data available.

Incompatible Materials: Reactive or incompatible with acids and epoxy resins.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition should not occur.

11. Toxicological Information

Eye Contact: Causes serious eye damage. May result in permanent impairment or blindness. Vapors irritate the eyes.

Skin Contact: Causes severe skin burns. Prolonged or repeated contact may cause an allergic reaction or dermatitis.

Inhalation: Vapors or mists may cause respiratory irritation.

Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.

Chronic Health Effects: Reproductive effects. Repeated exposures may cause adverse effects to the liver and kidneys.

Acute Oral Toxicity: LD50 (rat): 1376 mg/kg (ATE).

Acute Dermal Toxicity: LD50 (rabbit): 1484 mg/kg (ATE).

Acute Inhalation Toxicity: LC50: 0.3 mg/l (for diethylenetriamine).

Respiratory Sensitization: Components are not respiratory sensitizers.

Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Components are not known mutagens.

Carcinogenicity: Components are not designated as carcinogens by NTP, IARC, or OSHA.

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

Specific Target Organ Toxicity: Single exposure: May cause respiratory irritation.

12. Ecological Information

Ecotoxicity: LC50 (fish): 14 mg/l (ATE). EC50 (Daphnia magna): 10 mg/l (ATE). EC50 (Algae): 10 mg/l (ATE)

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: Low to moderate 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.: UN2079, Diethylenetriamine Solution, 8, II. Product sold in 0.25-lb, and 2-lb container sizes are LTD QTY.

IMDG & IATA: UN2079, Diethylenetriamine Solution, 8, II.

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

15. Regulatory Information

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: In package sizes sold by Polytek, this product does not contain reportable quantities of CERCLA 103 chemicals. RQ for Bisphenol A is 5000 lb.

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

Section 313 Toxic Chemicals: Product contains 25-35% Bisphenol A (CAS No. 80-05-7).

Section 302 Extremely Hazardous Substances (TPQ): None.

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

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: Converted to GHS format: May 19, 2015. Supersedes MSDS dated Jan. 2, 2012.

Disclaimer: The information contained herein is considered accurate; however, Polytek® 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.