

1. Identification

Product Identifier: **Polyaspartic Pro Hardener**
 Product Code(s): **HARDENER9820**
 Use: For Industrial/Professional use only.
 Manufacturer: Polytek Development Corp.
 55 Hilton Street, Easton, PA 18042
 Phone Number: 800-858-5990 (8 a.m. to 6:30 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 (Inhalation) – Category 4
 Skin Sensitization – Category 1
 Reproductive Toxin – Category 2
 Specific Target Organ Toxicity (Single Exposure) – Category 3

Label Elements: Warning



Hazard Phrases

H317 May cause an allergic skin reaction.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H361 Suspected of damaging fertility or the unborn child.

Precautionary Phrases

P203 Obtain, read and follow all safety instructions before use.
 P261 Avoid breathing fumes, vapors, mists or sprays.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves, protective clothing, eye protection and face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P317 Get medical help.
 P318 IF exposed or concerned, get medical advice.
 P319 Get medical help if you feel unwell.
 P333+P317 If skin irritation or rash occurs: Get medical help.
 P362+P364 Take off contaminated clothing and wash before reuse.
 P403+P233 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: This is one part of a two-part system. Read and understand the hazards of the Part A before use.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Hexamethylene diisocyanate oligomers, Isocyanurate	28182-81-2	70-80
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	20-30
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 so. Get medical attention if irritation develops or persists.

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

Inhalation: Remove person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention immediately.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if you feel unwell.

Most Important Symptoms/Effects: Harmful if inhaled.

Indication of Immediate Medical Attention/Special Treatment: Get immediate medical attention if inhaled.

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.

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: Remove all ignition sources. Clear non-emergency personnel from the area. Ventilate area. Wear appropriate protective clothing to prevent eye and skin contact and respiratory protection.

Methods and Materials for Containment and Cleanup: Cover with an inert absorbent material and collect into an appropriate container for disposal. Do not seal the container since CO₂ is generated on contact with moisture and dangerous pressure buildup can occur. Decontaminate floor area with a mixture of water plus isopropyl alcohol (20%), household ammonia (10%), and detergent (2%).

7. Handling and Storage

Safe Handling: Avoid breathing fumes, vapors, mists, or sprays. 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 between 55 to 95°F (12°C to 35°C). Store in original, unopened containers.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: None established.

Ventilation: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: If needed (i.e., ventilation is inadequate), use a NIOSH-approved air-purifying, tight-fitting, half-face respirator with organic vapor cartridges. Respirator selection and use should be based on contaminant type, form and concentration. 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 goggles/glasses.

Other Protective Measures: Wear impervious clothing to prevent skin contact and contamination of personal clothing. An eye wash and washing facility should be available in the work area. Follow good Industrial Hygiene practices.

9. Physical and Chemical Properties

Appearance: Liquid, amber to clear

Odor: No data available

Odor Threshold: No data available

pH: Not applicable

Melting Point: No data available

Boiling Point: No data available

Flash Point: No data available

Evap. Rate: No data available

Flamm. Limits: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Relative Density: No data available

Solubility: Insoluble in water

Partition Coefficient: n-octanol/Water: Reacts with water

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 600 cps

10. Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: Not expected to occur.

Conditions to Avoid: Avoid extreme heat, open flame, moisture, and ignition sources.

Incompatible Materials: Water, alcohol, amines, bases, strong oxidizing agents and protic solvents.

Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides (NOx), Toxic gases

11. Toxicological Information

Eye Contact: May cause mild eye irritation.

Skin Contact: May cause mild skin irritation. May cause an allergic skin reaction.

Inhalation: Harmful if inhaled. May cause respiratory irritation.

Ingestion: No data available.

Chronic Health Effects: May cause an allergic skin reaction.

Acute Toxicity Values: For Hexamethylene diisocyanate oligomers, Isocyanurate (CAS 28182-81-2):

Oral LD₅₀: >2,500 mg/kg

Dermal LD₅₀: >2,000 mg/kg

Inhalation LC₅₀: 3.9 mg/L, 4 hr.

Respiratory Sensitizers: Components are not classified as respiratory sensitizers.

Skin Sensitizers: May cause an allergic skin reaction.

Germ Cell Mutagens: Components are not classified as mutagens.

Carcinogenicity: Components are not classified as carcinogens.

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

Specific Target Organ Toxicity: May cause respiratory irritation, drowsiness or dizziness.

12. Ecological Information

Ecotoxicity: Harmful to aquatic life. Avoid release to the environment.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: Low potential for bioaccumulations.

Mobility in Soil: No data available.

13. Disposal Considerations

Dispose according to local, state and federal regulations. Upon exposure to moisture, product forms an inert, non-hazardous solid. In the U.S., this product is not a RCRA hazardous waste (per 40 CFR 261).

14. Transport Information

Not regulated for transport in any mode.

EMERGENCY SHIPPING: 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 stringent requirements. Report spills in accordance with local and state regulations.

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

Section 313 Toxic Chemicals: This product does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.

EPA Toxic Substances Control Act (TSCA) Status: All of the components of 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: March 11, 2024

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.