

1. Identification

Product Identifier: **Poly-Optic® 1411 Clear Casting Resin Part B**
Poly-Optic® 1411 Slow Clear Casting Resin Part B

Product Code(s): 1411B,1411SLOWB

Use: Component for Polyurethane Clear Casting Resin. For Industrial/Professional use only.

Manufacturer: Polytek Development Corp.
 55 Hilton St., Easton, PA 18042

Phone Number: 610-559-8620 (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:

Reproductive Toxin – Category 2

Label Elements: Warning



Hazard Statements:

H361 Suspected of damaging fertility or the unborn child.

Precautionary Phrases:

P203 Obtain, read and follow all safety instructions before use.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P318 IF exposed or concerned, get medical advice.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local, regional and national regulations.

Supplemental Information: May cause mild skin and eye irritation. Read and understand the hazard information on part A before using.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	10-20
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, holding the eyelids open to be sure the material is washed out. 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.

Inhalation: Remove person to fresh air. Get medical attention if symptoms develop or persist.

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

Most Important Symptoms/Effects: None known.

Indication of Immediate Medical Attention/Special Treatment: Not expected to be required.

5. Fire-Fighting Measures

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

Specific Hazards: Not classified as flammable. 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: Remove ignition sources. Clear non-emergency personnel from the area. Wear protective equipment to prevent eye and skin contact and avoid breathing vapors. Caution – spill area may be slippery.

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. Report spills and releases to appropriate authorities as required.

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 between 15 and 35°C (60 and 95°F). Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: For Phenylmercuric acetate (CAS 62-38-4):

OSHA PEL	0.01 mg/m ³ TWA
ACGIH TLV	0.10 mg/m ³ TWA

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

Respiratory Protection: In the absence of good ventilation, use an approved 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.

Skin Protection: Wear impervious rubber (e.g., butyl or nitrile) gloves.

Eye Protection: Wear chemical safety glasses/goggles.

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

9. Physical and Chemical Properties

Appearance: Liquid, clear

Odor: Mild

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: 1.05 @ 25°C

Solubility: Negligible in water

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

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 176-1500 cP @ 25°C

10. Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: Reaction with strong oxidizers generates heat.

Conditions to Avoid: Avoid excessive heat.

Incompatible Materials: Avoid contact with strong oxidizers.

Hazardous Decomposition Products: Thermal decomposition will generate oxides of carbon and mercury compounds.

11. Toxicological Information

Eye Contact: May cause mild eye irritation.

Skin Contact: May cause mild skin irritation.

Inhalation: May cause mild respiratory irritation.

Ingestion: No data available.

Chronic Health Effects: None known.

Acute Toxicity Values: Not acutely hazardous.

Respiratory Sensitization: Components are not classified as respiratory sensitizers.

Skin Sensitization: Components are not classified as skin sensitizers.

Germ Cell Mutagenicity: Components are not known mutagens.

Carcinogenicity: Components are not known carcinogens.

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

Specific Target Organ Toxicity: No data available.

12. Ecological Information

Ecotoxicity: No data available. Avoid release to the environment.

Persistence and Degradability: No data available.

Bioaccumulative Potential: Bioaccumulation of mercury is possible.

Mobility in Soil: No data available.

13. Disposal Considerations

Dispose according to local, state and federal regulations. In the U.S., upon disposal, this product (uncured) is a characteristic RCRA hazardous waste (D009 - owing to mercury content) as defined in 40 CFR 261. Cured materials may be RCRA-regulated owing to mercury content.

14. Transport Information

Not regulated for transport by any mode.

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

15. Regulatory Information

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: RQ for Phenylmercuric acetate is 100 lb. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III Section 311/312: Chronic Health

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:
Phenylmercury acetate (CAS 62-38-4) ≤0.5%

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: WARNING: This product can expose you to chemicals including Phenylmercuric acetate, which is 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 or professional use only.

SDS Revision Notes: Updated GHS: February 24, 2020; Reviewed and updated: December 7, 2021

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.