

## 1. Identification

Product Identifier: **Crystal Sheen 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)  
 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  
 Skin Corrosion – Category 1  
 Serious Eye Damage – Category 1  
 Skin Sensitization – Category 1  
 Reproductive Toxin – Category 2  
 Specific Target Organ Toxicity – Repeated Exposure 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.  
 H372 Causes damage to organs through prolonged or repeated exposure.

### Precautionary Phrases

P203 Obtain, read and follow all safety instructions before use.  
 P260 Do not breathe fumes, vapors, or mists.  
 P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink, or smoke when using this product.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves, protective clothing, eye protection and face 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.  
 P316 Get emergency medical help immediately.  
 P317 Get medical help.  
 P318 IF exposed or concerned, get medical advice.  
 P319 Get medical help if you feel unwell.  
 P330 Rinse mouth.  
 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.  
 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
Polyoxypropylene Amine Compound	Proprietary	15-25
Amino Piperazine Compound	Proprietary	0-10
Butanol Compound	Proprietary	0-5
Exact concentrations are withheld as trade secret. Other ingredients are not listed because they are either not hazardous or are below cut-off/concentration thresholds.		

## 4. First-Aid Measures

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

**Skin Contact:** Wash contaminated clothing before reuse. Rinse skin thoroughly with lukewarm water for at least 15 minutes. Call a physician or poison control center immediately.

**Inhalation:** If inhaled, remove to fresh air. For breathing difficulties, oxygen may be necessary. Get medical attention immediately.

keep head low so that stomach content doesn't get into the lungs. Call a physician or poison control center immediately.

**Most Important Symptoms/Effects:** Ingestion may product burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. May cause an allergic skin reaction. Dermatitis. Rash. Contact can cause corrosive burns, corneal damage, and blindness. Itching, redness, swelling, burning or blistering of skin.

### Indication of Immediate Medical Attention/Special Treatment:

Exposure may aggravate pre-existing skin disorders. Treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## 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:** For Butanol Compound:

OSHA PEL	150 ppm TWA
ACGIH TLV	100 ppm TWA
NIOSH	455 mg/m <sup>3</sup> STEL, 100 ppm TWA

**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, clear

**Odor:** Minimal, not distinct.

**Odor Threshold:** No data available

**pH:** No data available

**Melting Point:** No data available

**Boiling Point:** 400°F (204.44°C)

**Flash Point:** 200°F (93.3°C)

**Evap. Rate:** No data available

**Flamm. Limits:** No data available

**Vapor Pressure:** > 1

**Vapor Density:** No data available

**Relative Density:** No data available

**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 skin burns and eye damage. May cause allergic skin reaction.

**Inhalation:** Prolonged inhalation may be harmful. May cause irritation to the respiratory system.

**Ingestion:** Harmful if swallowed. Causes digestive tract burns.

**Chronic Health Effects:** May cause allergic skin reaction.

**Acute Toxicity Values:** For Butanol Compound:

Oral LD<sub>50</sub> rat: 2,193 mg/kg

Dermal LD<sub>50</sub> rat: >2,000 mg/kg

**Respiratory Sensitization:** Components are not classified as respiratory sensitizers.

**Skin Sensitization:** Components are classified as skin sensitizers.

**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:** Causes damage to organs through prolonged or repeated exposure.

### 12. Ecological Information

**Ecotoxicity:** No data available. 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 liquids, n.o.s (nonyl phenol, n-aminoethylpiperazine), 8, III.

**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 state 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:

Phenol, 4-nonyl, branched (CAS 84852-15-3)	50-60%
Butanol Compound (CAS: Proprietary)	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 Methyloxirane, a chemical known to the State of California to cause cancer. [www.P65Warnings.ca.gov](http://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

**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.