



00924-1024

SAFETY DATA SHEET: Page 1**1. Identification**

Product Identifier: **Amazing Clear Cast Outdoor Epoxy Hardener**

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 (Oral) – Category 4
Acute Toxicity (Dermal) – Category 4
Skin Corrosion – Category 1
Serious Eye Damage – Category 1
Skin Sensitization – Category 1
Specific Target Organ Toxicity – Repeated Exposure Category 2
Hazardous to the Aquatic Environment – Acute Hazard Category 2
Hazardous to the Aquatic Environment – Chronic Hazard Category 2

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.
H373 May cause damage to organs through prolonged or repeated exposure.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Phrases

P260 Do not breathe fumes, vapors, mists or sprays.
P264 Wash 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.
P273 Avoid release to the environment.
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 soap and water.
P302+P361+P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
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.
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 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 Resin before using.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Propylidynetrimethanol, propoxylated, reaction products with ammonia	39423-51-3	40-50
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	20-30
Benzyl Alcohol	100-51-6	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 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 immediately.

Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention immediately. Wash 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 if symptoms develop or persist.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

Most Important Symptoms/Effects: Harmful if swallowed and in contact with skin.

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

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. Combustion products include oxides of carbon and nitrogen, isocyanates, hydrogen cyanide, dense smoke.

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.

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.



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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, 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: 0.99

Solubility: Insoluble in water

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

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 350 cps @ 25°C

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: Oxidizing agents, acids, isocyanates and water.

Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides (NOx), Amines, other aliphatic fragments which have not been determined, Ammonia gas may be liberated at high temperatures.

11. Toxicological Information

Eye Contact: Causes serious eye damage.

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

Inhalation: May cause mild respiratory irritation.

Ingestion: Harmful if swallowed.

Chronic Health Effects: May cause an allergic skin reaction.

Acute Toxicity Values: 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 4,4'-Methylenebis(cyclohexylamine) (CAS 1761-71-3):

Oral LD₅₀ (rat): 380 mg/kg

Dermal LD₅₀ (rabbit): 2,210 mg/kg

For Benzyl Alcohol (CAS 100-51-6):

Oral LD₅₀ (rat): 1,620 mg/kg

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: Components are not classified as reproductive toxins.

Specific Target Organ Toxicity: May cause damage to organs through prolonged or repeated exposure.

12. Ecological Information

Ecotoxicity: Toxic to aquatic life with long lasting effects. Do not 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

DOT: UN1760, Corrosive liquid, n.o.s., (trimethylolpropane polyoxypropylene triamine, 4,4'-Methylenebis(cyclohexylamine)), 8, III. (LTD QTY if shipped in quantities of 5L (1.32gal) or less.

IATA/IMDG: UN1760, Corrosive liquid, n.o.s., (trimethylolpropane polyoxypropylene triamine, 4,4'-Methylenebis(cyclohexylamine)), 8, III, MARINE POLLUTANT.

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: WARNING: This product can expose you to chemicals including Propylene Oxide, 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/professional use only.

SDS Revision Notes: GHS Format: December 17, 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.



SAFETY DATA SHEET

1. Identification

Product Identifier: **Amazing Clear Cast Outdoor Epoxy Resin**
 Use: Epoxy Resin. For Industrial/Professional use only.
 Manufacturer: Polytek Development Corp.
 55 Hilton Street, Easton, PA 18042
 Phone Number: 800-858-5990 (8am to 6:30pm EST)
 Emergency Phone: CHEMTREC 800-424-9300 or
 +1 703-527-3887
 Email: sds@polytek.com

2. Hazards Identification

GHS Classification:

Skin Irritation – Category 2
 Eye Irritation – Category 2A
 Skin Sensitization – Category 1
 Specific Target Organ Toxicity – Repeated Exposure Category 2
 Hazardous to the Aquatic Environment – Acute Hazard Category 3
 Hazardous to the Aquatic Environment – Chronic Hazard Category 2

Label Elements: Warning



Hazard Phrases

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H402 Harmful to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary Phrases

P260 Do not breathe fumes, vapors, mists, or sprays.
 P264 Wash hands thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the work area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves, eye protection, and face protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P319 Get medical help if you feel unwell.
 P333+P317 If skin irritation or rash occurs: Get medical help.
 P337+P313 If eye irritation persists: Get medical advice or attention.
 P362+P364 Take off contaminated clothing and wash before reuse.
 P391 Collect spillage.
 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 curative before using.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Cyclohexanol, 4,4'-(1-methylethylidene)-, polymer with 2-(chloromethyl)oxirane	30583-72-3	70-80
Epoxy Resin	25068-38-6	20-30
Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester	41556-26-7	0-5
Benzoic acid, 4-[[[(methylphenylamino)methylene]amino]-, ethyl ester	57834-33-0	0-5
Exact concentrations are withheld as trade secret. Other ingredients are not classified as health, physical or environmental hazards, or are present below cut-off/concentration limits.		

4. First-Aid Measures

Eye Contact: Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Remove contact lenses if safe and easy to do. Continue rinsing. 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: 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 solid water stream. Solid stream of water into hot product may cause violent steam generation or spread fire.

Specific Hazards: Not classified as flammable or combustible. Product will burn under fire conditions. Combustion products include oxides of carbon, phenolics, aldehydes and other toxic organic compounds.

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

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency

Procedures: Clear unnecessary, unprotected 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. Dispose of in accordance with applicable local and federal environmental laws and regulations.

7. Handling and Storage

Safe Handling: Use with adequate ventilation. Avoid contact with 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 (49°C). Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.



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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 needed, an approved respirator with organic vapor cartridges may be used. 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 gloves, such as butyl rubber or nitrile rubber.

Eye Protection: Wear chemical safety glasses/goggles.

Other Protective Measures: 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: Epoxy

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

Boiling Point: No data available

Flash Point: No data available

Evap. Rate: No data available

Upper/Lower Flammability Limits: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Relative Density: 1.10 @ 25°C

Solubility: No data available

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

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 4,000 cps @ 25°C

10. Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions. After prolonged storage, may crystallize.

Possibility of Hazardous Reactions: Masses of ≥ 1 lb (0.5 kg) plus aliphatic amine will cause irreversible polymerization with considerable heat build-up. Material will polymerize with sodium hydroxide.

Conditions to Avoid: Avoid excessive heat.

Incompatible Materials: Avoid contact with strong oxidizing agents, acids, alkalis, amines, mercaptans.

Hazardous Decomposition Products: Uncontrolled exothermic reaction of epoxy resin releases carbon monoxide, carbon dioxide, phenolics, and aldehydes.

11. Toxicological Information

Eye Contact: Causes serious eye irritation.

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

Inhalation: May cause mild respiratory irritation.

Ingestion: No data available.

Chronic Health Effects: May cause an allergic skin reaction.

Acute Toxicity Values: Not acutely hazardous.

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: Components are not classified as reproductive toxins.

Specific Target Organ Toxicity: May cause damage to organs through prolonged or repeated exposure.

12. Ecological Information

Ecotoxicity: Toxic to aquatic life with long lasting effects. Do not release into waterways.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: Low potential to bioaccumulate in aquatic organisms.

Mobility in Soil: No data available.

13. Disposal Considerations

Do not dump to ground, sewers, or watercourses. Dispose according to local, state, and federal regulations.

For U.S.: Upon disposal, this product is not a RCRA hazardous waste (per 40 CFR 261).

14. Transport Information

DOT: Non-Bulk packages (<882lb or <119gal) are not regulated for transport.

Bulk packages: UN3082, Environmentally hazardous substance, liquid, n.o.s. (epoxy resin), 9, III.

IATA/IMDG: UN3082, Environmentally hazardous substance, liquid, n.o.s (epoxy resin), 9, III, MARINE POLLUTANT

Excepted from IATA and IMDG regulations if shipped in quantities of 5L (1.32 gal) or less. (See IATA A197 and IMDG 2.10.2.7)

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

15. Regulatory Information

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: Components are not subject to this reporting requirement. Some states have more stringent reporting requirements.

SARA TITLE III

Section 311/312: Acute and Chronic Health

Section 313 Toxic Chemicals: This product contains no chemicals subject to SARA Title III Section 313 reporting requirements.

Section 302 Extremely Hazardous Substances (TPQ): None

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

STATE REGULATIONS:

California Proposition 65: WARNING: This product can expose you to chemicals including Epichlorohydrin, 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: Mold making and casting.

SDS Revision Notes: GHS Format: December 17, 2024

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