

Safety Data Sheet

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELING OF CHEMICALS (GHS)

POLYLAST EPOXY PRIMER – PART B

Date 6/08/2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name POLYLAST EPOXY PRIMER - PART B
Other Means of Identification: Epoxy Adhesive Part B Curing Agent.
Product Use: Epoxy adhesive designed as a primer

Trade Name: POLYLAST PRIMER

Company: Polylast Systems LLC.
7432 Tierra Buena Lane, Suite# 105
Scottsdale, AZ 85260

Phone Number: 480-991-3033

Emergency Telephone Number 24 hours/day: Chemtrec: 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

OSHA Hazards: Irritant, corrosive, skin sensitizer

GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29CFR 1910 (OSHA HCS)

GHS Physical Hazards: None by GHS standards. Flash point is above 93C(199F). Material will not burn unless preheated. It is corrosive to skin but not metal.

GHS Health and Environmental Hazards

Acute toxicity: Oral Rat (Category 4), H302. Symbol: Exclamation Mark. Signal Word: Warning. Harmful if swallowed.

Skin corrosion: (Category 1B), H314. Symbol: Corrosion. Signal Word: Danger. Causes severe skin burns and eye damage.

Skin sensitization: (Category 1B), H317. Symbol: Exclamation Mark. Signal Word: Warning. May cause an allergic skin reaction.

Serious eye damage: (Category 1), H318. Symbol: Corrosion. Signal Word: Danger. Causes serious eye damage.

Reproductive toxicity: (Category 2), H361. Symbol: Health Hazard. Signal Word: Warning. Suspected of damaging fertility or the unborn child.

Acute aquatic toxicity: (Category 1), H400. Symbol: Environment. Signal Word: Warning. Very toxic to aquatic life.

Chronic aquatic toxicity: (Category 1), H410. Symbol: Environment. Signal Word: Warning. Very toxic to aquatic life with long lasting effects.

GHS SAFETY DATA SHEET POLYLAST HARDENER PART B

GHS Label elements, including precautionary statements Pictograms



Signal Word: Danger

Hazard Statements:

- H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage.
- H361 Suspected of damaging fertility or the unborn child.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P301+P330+P331 IF SWALLOWED: rinse mouth, Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/ physician.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage.
- P405 Store locked up.
- P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: None.

Product identifier: 221 LIGHTENING BALL PLUG COMPOUND HARDENER Part B

Signal word: Warning.

Hazard statements: Do not use around open flame or while smoking. Causes Skin and Eye Irritation. Do not breathe vapors or mist. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

FIRST AID

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops and persists.

GHS SAFETY DATA SHEET POLYLAST HARDENER PART B

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %	Labels	EC Risk Phrases
Polyoxypropylenediamine	9046-10-0	< 40%	C	R21/22, R34, R43
Proprietary Polymer	Proprietary	< 35%	Xi	R36/37/38
Nonyl Phenol	84852-15-3	< 20%	C	R21/22, R34, R43
Proprietary Additives	Proprietary	< 10%	Xi	R22
Proprietary Curing Agent	Proprietary	< 25%	C	R21/22, R34, R43

HMIS Ratings: Estimated Health:3 Flammability: 1 Reactivity: 0
NFPA Ratings: Health:3 Flammability: 1 Reactivity: 0
Product EC Label Required: Corrosive

Emergency Overview

Harmful if swallowed.
Components of the product may affect the nervous system.
Severe respiratory irritant.
Skin irritant.
Severe eye irritant.
May cause sensitization by extended skin contact.

Potential Health

Effects Inhalation: May cause central nervous system effects, such as headache, nausea, dizziness, breathing difficulties. May cause nose, throat, and lung irritation. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Eye Contact: Severe eye irritation.

Skin contact: If absorbed through the skin, may cause central nervous system effects, such as headache, nausea and dizziness.

Ingestion: Harmful if swallowed. May cause central nervous system effects, such as headache, nausea, vomiting and abdominal pain.

Chronic Health Hazard: Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas.

Explanation of Labeling Requirements, Safety Phrases and Risk Phrases

Xi – Irritant

C – Corrosive

S(1/2): Keep locked up and out of the reach of children.

S15: Keep away from heat

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S27/28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

R22: Harmful if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R43: May cause sensitization by skin contact.

GHS SAFETY DATA SHEET POLYLAST HARDENER PART B

SECTION 4. FIRST AID MEASURE

- Inhalation:** Get medical attention immediately. Remove victim to fresh air and provide oxygen if breathing is difficult. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Skin Contact:** Get medical attention immediately. Remove contaminated clothing / shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. Chemical burns must be treated promptly by a physician. Wash clothing before reuse.
- Eye Contact:** Get medical attention immediately. Flush eyes with plenty of water for 15 minutes while holding eyelids open. Rest eyes for 30 minutes. Chemical burns must be treated promptly by a physician.
- Ingestion:** Get medical attention immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire

Specific hazards during firefighting: In a fire, or if heated, a pressure increase will occur and the container may burst. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken involving any personal risk or without suitable training.

Special protective: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: No action shall be taken involving any personal risk or without suitable training. Avoid breathing vapor mist. Provide adequate ventilation.

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution.

Methods for cleaning up: Stop leak if without risk. Move container from spilled area. Approach release from up wind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand earth vermiculite or diatomaceous earth and place in container for disposal according to local regulations. (see section 13) Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose same hazard as the spilled product.

GHS SAFETY DATA SHEET POLYLAST HARDENER PART B

SECTION 7. HANDLING & STORAGE

Handling: Put on appropriate protective equipment (section 8). Workers should wash hands and face before eating, drinking, and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: Contains no substances with occupational exposure limit values.

Preventative Measures: Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at the work place.

Engineering Controls: Use local exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. For guidance on engineering control measures refer to publications such as the ACGIH current edition of 'Industrial Ventilation, a manual or Recommended Practice.'

Personal Protection:

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts.

Skin: Protective equipment for the body should be selected based on the task being performed and the risks involved. Should be approved by a specialist before handling this product.

Respiratory: Use a properly fitted, air purifying or air fed respirator complying with an approved standard if a risk assessment indicated this is necessary. Respirator selection must be based on known or anticipated exposure levels.

Hands: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicated this.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and color:	Light Yellow liquid
Odour:	Ammoniacal
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash Point, closed cup:	>93C(199F)
Evaporation Rate:	No data available
Flammability(solid, gas):	No data available
Upper/Lower flammability Limits	No data available

GHS SAFETY DATA SHEET POLYLAST HARDENER PART B

Vapour pressure:	No data available
Vapour density (air=1):	>1
Relative density (water):	0.97
Solubility (water):	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	Approximately 700-800 Centipoise

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity:	The product is stable.
Hazardous Polymerization:	Will not occur.
Hazardous decomposition:	Fumes, carbon dioxide, acrid smoke and phenolics
Conditions to avoid:	High heat, strong oxidizers, acids. May react with acids.

SECTION 11. TOXOLOGICAL INFORMATION

Toxicity Data Acute Toxicity

Product/ Ingredient Name	CAS Number	Test	Species	Result	Exposure
Polyoxypropylenediamine	9046-10-0	LD50 Dermal	Rabbit	2980 mg/kg	Not found
Polyoxypropylenediamine	9046-10-0	LD50 Oral	Rat	2880 mg/kg	Not found
Nonyl Phenol	84852-15-3	LD50 Dermal	Rabbit	2140 mg/kg	Not found
Nonyl Phenol	84852-15-3	LD50 Oral	Rat	580 mg/kg	Not found

Potential acute health effects

Ingestion:	Harmful if swallowed. May cause burns to mouth, throat & stomach.
Inhalation:	Irritation to respiratory system
Eyes:	Corrosive to eyes. Causes Burns
Skin:	Corrosive to the skin. Causes Burns

Potential chronic health effects

Target Organs:	None known.
Carcinogeny:	No known significant effects or critical hazards.

SECTION 12. ECOLOGICAL INFORMATION

Ingredient	CAS Number	Species	LC50	EC50
Polyoxypropylenediamine	9046-10-0	Rainbow Trout	>15mg/l 96 h	Not applicable
Polyoxypropylenediamine	9046-10-0	Daphnia magna	Not applicable	80mg/l-48h
Nonylphenol	84852-15-3	Lepomis macrochirus	0.209 mg/l 95h	Not applicable
Nonylphenol	84852-15-3	Daphnia magna	Not applicable	0.0844mg/l 48h

Persistence and degradability:

Biodegradability of Polyoxypropylenediamine: OECD Test Guideline 301B. Result: 0%. According to the results of tests of biodegradability this product is not readily biodegradable. Harmful to aquatic life with long lasting effects.

GHS SAFETY DATA SHEET POLYLAST HARDENER PART B

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	Proper Shipping Name	Class	PG	Label	Additional Information
DOT Classification	UN 2735	Amines, liquid corrosive, n.o.s	8	III	corrosive	None

USA Domestic Ground: Shipping Name: Consumer Commodity
Hazard Class; ORM-D
ID Number: N/A
Label required: None

USA Domestic Air: Shipping Name: Consumer Commodity
Hazard Class; ORM-D
ID Number: N/A
Packing Group: N/A
Label required: ORM-D-AIR

International Surface: Shipping Name: Corrosive Liquids, N.O.S., (Amines)
Hazard Class; 8
ID Number: UN 2735
Packing Group: III
Label required: Corrosive
EMS #8-15

International Air: Shipping Name: Corrosive Liquids, N.O.S., (Triethylene Tetramine)
Hazard Class; 8
ID Number: UN 2735
Packing Group: III
Label required: Corrosive
EMS #8-15

SECTION 15. REGULATORY INFORMATION

United States:

HCS Classification:	Corrosive material
U.S. Federal Regulations:	United States Inventory (TSCA 8b): all components are listed or exempted.
CERCLA: Hazardous Substances:	No ingredients listed
SARA 311 / 312:	Acute, reactive
SARA 313 Toxic Chemicals	None known
	This product does not contain nor is it manufactured with ozone depleting substances.
California Prop 65:	No ingredients listed.

GHS SAFETY DATA SHEET POLYLAST HARDENER PART B

Canada:

WHMIS (Canada): **Class E: Corrosive material**

D1B – Material is toxic with short exposure and moderate dose

D2A – Material is teratogenic, embryotoxic, or fetotoxic

D2B – Skin sensitizer

CEPA (DSL): **Canada Inventory:** All components are listed or exempted

SECTION 16. OTHER INFORMATION

Notice to Reader:

While the information and recommendations in this publication are to the best of our knowledge, information, and belief accurate at the date of publication, NOTHING IS HEREIN TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.