

SECTION 1 PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: PolyPUF Part B 2.5 F, PolyPUF Part B 2.8F and PolyPUF Part B 3.0 F

Recommended Use: Urethane System Resin Component

Restriction on Use: None

Manufacturer:

Polyglass U.S.A. Inc.
 1111 West Newport Center Drive
 Deerfield Beach, Florida 33442
 866-222-9782

SDS Date of Preparation: 04/28/17

Emergency Contact: (800) 424-9300 CHEMTREC (USA)

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification:

Physical	Health
Not Hazardous	Skin Irritation Category 2 Eye Damage Category 1 Specific Target Organ Toxicity Repeated Exposure Category 2

Label Elements:

DANGER!
 Causes skin irritation.
 Causes serious eye damage.
 Causes damage to kidneys through prolonged or repeated exposure if ingested.



Prevention

Do not breathe mist, vapors or spray.
 Wash thoroughly after handling.
 Wear protective gloves and eye protection.

Response

Get medical attention if you feel unwell.
 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Disposal:

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

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS#	WT.%
Tris(2-chloro-1-methylethyl)phosphate	13674-84-5	7-15
Glycerin	56-81-5	1-3
2-Dimethylaminoethanol	108-01-0	1-<4
Diethylene glycol	111-46-6	0.3-3
2-((2-(dimethylamino)ethyl)methylamino)ethanol	2212-32-0	0.3-1
Triethylenediamine	280-57-9	0-1

The exact percentage (concentration) of composition is naturally variable or has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURERS

Eyes: Immediately flush eyes with water for at least 20 minutes while lifting the upper and lower lids. Get immediate medical attention.

Skin: Remove contaminated clothing. Wash with soap and water. If irritation develops, get medical attention. Launder clothing before re-use.

Inhalation: If inhaled, move to fresh air. If irritation or breathing difficulties develop, get medical attention.

Ingestion: If conscious, rinse mouth with water. Never give anything by mouth to a person who is unconscious or convulsing. Do not induce vomiting. Get medical attention.

Most important symptoms/effects, acute and delayed: Causes severe eye irritation and burns. Permanent eye damage is possible. Causes skin irritation. Inhalation may cause upper respiratory tract irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged or repeated exposure to diethylene glycol may cause kidney damage if ingested.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is required if this eye contact occurs.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Use water spray, foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.

Special Protective Equipment and Precautions for Fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses.

Specific Hazards Arising from the Chemical: Combustion may produce carbon and nitrogen oxide and hydrogen cyanide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists.

Methods and Materials for Containment and Cleaning Up: Dike the spilled material. Attempt to reclaim the free product, if this is possible. Place in an appropriate container for use or disposal. Collect residue with inert material and place into a closable container for disposal. Wash spill area. Prevent runoff to storm sewers and ditches leading to natural waterways. Report spill as required by local and federal regulations.

SECTION 7 HANDLING and STORAGE

Precautions for Safe Handling: Prevent contact with the eyes. Avoid contact with skin and clothing. Avoid breathing vapor or mists. DO not ingest. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly after handling.

Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

Storage: Store in a dry, well ventilated area. Protect from physical damage. Keep container closed when not in use.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

Exposure Guidelines:

INGREDIENTS	EXPOSURE LIMITS
Tris(2-chloro-1-methylethyl)phosphate	None Established
Glycerin	5 mg/m ³ TWA (respirable fraction), 15 mg/m ³ TWA (total dust) OSHA PEL
2-Dimethylaminoethanol	None Established
Diethylene glycol	10 mg/m ³ TWA AIHA WEEL
2-((2-(dimethylamino)ethyl)methylamino)ethanol	None Established
Triethylenediamine	None Established

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits.

Respiratory Protection: If the exposure limits are exceeded a NIOSH approved organic vapor respirator with dust/mist prefilters appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Gloves: Impervious gloves are recommended to avoid skin contact.

Eye Protection: Chemical safety goggles recommended if splashing is possible.

Other Protective Equipment: Impervious clothing as needed to prevent contact. An eye wash should be available in the immediate work area.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

Appearance And Odor: Brown liquid with an amine-like odor.

Boiling Point (@ 760 mmHg): >212°F (>100°C)	Freezing Point: >32°F (>0°C)
Odor Threshold: Not applicable	Viscosity: Not applicable
Relative density (H₂O=1): 1.18-1.199	Vapor Pressure: <0.1 hPa @ 25°C
VOC: Not determined	Vapor Density (AIR=1): Not available
Evaporation Rate: Not applicable	Solubility In Water: Soluble
pH: ≥ 7	Partition Coefficient n-Octanol/Water: Not determined
Flash Point: >200°F (>93.3°C)	Autoignition Temperature: >482°F (>250°C)
Decomposition Temperature: Not determined	Flammability (solid, gas): Not flammable or combustible
Flammable Limits: (vol % in air)	LEL – Not applicable UEL – Not applicable

SECTION 10 STABILITY and REACTIVITY

Reactivity: Not normally reactive.

Chemical Stability: Stable under normal storage and handling conditions

Possibility of Hazardous Reactions: None known

Conditions to avoid: Temperatures less than 32°F (0°C).

Incompatible materials: Avoid oxidizing agents, acids and isocyanates.

Hazardous decomposition products: Thermal decomposition may yield oxides of carbon and nitrogen and hydrogen cyanides.

SECTION 11 TOXICOLOGICAL INFORMATION

Eye: Contact causes severe irritation with pain, redness, tearing and burning. Permanent eye damage is possible.

Skin: Causes skin irritation with redness and itching.

Inhalation: Inhalation of vapors or mists may cause respiratory irritation.

Ingestion: Ingestion causes irritation and burns to the mouth, throat and intestinal tract.

Sensitization: None of the components are skin sensitizers.

Chronic Effects: Diethylene glycol has been shown to cause kidney damage.

Carcinogenicity: None of the components are listed as a carcinogen by NTP, IARC, ACGIH or OSHA.

Reproductive effects: No adverse effects are expected.

Numerical Measures of Toxicity:

Tris(2-chloro-1-methylethyl)phosphate: Oral rat LD50 2800 mg/kg, Inhalation rat LC50 7.19 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg

2-Dimethylaminoethanol: Oral rat LD50 1182.7 mg/L, Inhalation rat LC50 7 hr 24.6 mg/L, Dermal rabbit LD0 >3000 mg/L

Diethylene glycol: Oral rat LD50 16,500 mg/L

2-((2-(dimethylamino)ethyl)methylamino)ethanol: No toxicity data available

Triethylenediamine: Oral rat LD50 700 mg/L, Dermal rabbit LD50 >2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Tris(2-chloro-1-methylethyl)phosphate; 96 hr LC50 Pimephales promelas 51 mg/L, 48 hr EC50 daphnia magna 131 mg/L, 72 hr EC50

Pseudokirchneriella subcapitata 82 mg/L

2-dimethylaminoethanol: 96 hr LC50 Leuciscus idus 146.63 mg/L; 48 hr EC50 daphnia magna 98.37 mg/L; 72 hr EC50

Desmodesmus subspicatus 66.08 mg/L

Diethylene glycol: 96 hr EC50 Pimephales promelas 75,200 mg/L, 24 hr EC50 daphnia magna 10,000 mg/L, 72 hr EC50

Pseudokirchneriella subcapitata 6500-13,000 mg/L

2-((2-(dimethylamino)ethyl)methylamino)ethanol: No data available

Triethylenediamine: 96 hr LC50 Cyprinus carpio >100 mg/L, 48 hr EC50 daphnia magna >100 mg/L, 72 hr EC50 Selenastrum

capricornutum 110 mg/L

Persistence and degradability: Tris(2-chloro-1-methylethyl)phosphate and triethylenediamine not readily biodegradable. 2-dimethylaminoethanol and diethylene glycol are readily biodegradable.

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with all local, state and federal regulations.



Safety Data Sheet

SECTION 14: TRANSPORT INFORMATION

Proper Shipping Name: Not Regulated
UN Number: None
Hazard Class/Packing Group: None
Labels Required: None
Environmental hazards: None known
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable
Special precautions: None known

SECTION 15: REGULATORY INFORMATION

SARA Hazard Category (311/312): See OSHA Hazard Classification in Section 2

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313:
None known

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory.

California Proposition 65: This product contains a chemical known the State of California to cause cancer.

SECTION 16: OTHER INFORMATION

NFPA Rating:	Health = 3	Fire = 1	Instability = 0
HMIS Rating:	Health = 3	Fire = 1	Physical Hazard = 0

SDS Date of Preparation: 03/01/17

Revision Summary: New SDS.

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Polyglass U.S.A. Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.