1. Identification

Product Identifier:	**Polygel® Spray 35 Liquid Rubber Part B** **Polygel® Spray 50 Liquid Rubber Part B**
Product Code(s):	PG35SPRAYB, PG50SPRAYB
Use:	Component for Polyurethane Mold Rubber. For Industrial/Professional use only.
Manufacturer:	Polytek Development Corp. 55 Hilton St., Easton, PA 18042 USA
Phone Number:	+1 610-559-8620 (9 a.m. to 5 p.m. EST)
Emergency Phone:	CHEMTREC 800-424-9300 or +1 703-527-3887
E-mail:	sds@polytek.com

2. Hazards Identification

GHS Classification:

Skin Irritation Category 1
Eye Irritation Category 1
Specific Target Organ Toxicity - Repeated Exposure Category 2

Label Elements: Danger

Hazard Phrases

H314 Causes severe skin burns and eye damage.
H318 Causes serous eye damage.
H373 May cause damage to organs (pancreas) through prolonged or repeated exposure.

Precautionary Phrases

P260 Do not breathe mists/vapors/spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves, protective clothing, eye protection, and face protection.
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+361+353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338 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.
P363 Wash contaminated clothing before reuse.
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 part A before using.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Diethyltoluenediamine	68479-98-1	<5
Polyoxypropylene diamine	9046-10-0	<7
Other ingredients, predominantly polyol and plasticizer, are not classified as health and/or environmental hazards, and/or are present below cut-offs/concentration limits.		

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, after first few minutes of rinsing. Get medical attention if irritation persists.

Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before re-use. Discard items that cannot be decontaminated.

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

Ingestion: Rinse mouth. Do not induce vomiting. Get medical attention.

Most Important Symptoms/Effects: Causes severe skin burns and eye damage.

Indication of Immediate Medical Attention/Special Treatment: Skin and/or eye burns.

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: Remove all ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing 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 as required to appropriate authorities.

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 60°F and 80°F. Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: None established for any ingredients contained in these products.

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 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: Polygel Spray 35B is white to light blue opaque liquid; Polygel Spray 50B is amber liquid.
Odor: Slight amine
Odor Threshold: No data available
pH: No data available
Melting Point: No data available
Boiling Point: No data available
Flash Point: >128°C (262°F)
Evap. Rate: No data available
Flamm. Limits: No data available
Vapor Pressure: <1 mm Hg @ 20°C
Vapor Density: No data available
Relative Density: 1.0 @ 25°C
Solubility: Slightly soluble in water
Partition Coefficient: n-octanol/Water: No data available
Auto-Ignition Temp: No data available
Decomposition Temp: No data available
Viscosity: 500-1500 cP

10. Stability and Reactivity

Reactivity: Reacts with isocyanates to form rubber.
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 and acids.
Hazardous Decomposition Products: Oxides of carbon and nitrogen and other toxic organic compounds.

11. Toxicological Information

Eye Contact: Causes serous eye damage.
Skin Contact: Causes skin burns.
Inhalation: Mists may cause respiratory irritation.
Ingestion: May cause harmful effects.
Chronic Health Effects: Mixture has not been tested. Based on laboratory animal studies, diethyltoluenediamine ingredient may cause damage to the pancreas, liver, thyroid and eyes through prolonged exposure.
Acute Toxicity Values:

Diethyltoluenediamine: Oral rat LD50 738 mg/kg; Inhalation rat LC50 2.45 mg/L/1 hr; Dermal rabbit LD50 >2000 mg/kg.

Polyoxypropylene diamine: Oral rat LD50 2885 mg/kg; Skin rabbit LD50 2980 mg/kg.

Polyol/plasticizer blend: Oral rat LD50 >2,000 mg/kg; Skin rabbit LD50 >2,000 mg/kg.

Respiratory Sensitization: Components are not respiratory sensitizers.
Skin Sensitization: Components are not skin sensitizers.
Germ Cell Mutagenicity: Components are not mutagens.
Carcinogenicity: Components are not carcinogens.
Reproductive Toxicity: Components are not reproductive toxins.
Specific Target Organ Toxicity:

Single Exposure: No data available.
Repeat Exposure: In animal studies, diethyltoluenediamine caused adverse effects in the pancreas at 8-10 mg/kg. At higher doses, effects were seen in the liver and thyroid as well.

12. Ecological Information

Ecotoxicity: Products are not classified as hazardous to the aquatic environment. Calculated EC50 for products are >12 mg/L. Data for components follows:

Diethyltoluenediamine: Fish LC50 200 mg/L/48 hr; Daphnia EC50 0.5 mg/L/48 hr.

Polyoxypropylene diamine: Fish LC50 >100 mg/L/96 hr; Daphnia EC50 15 mg/L/48 hr; Algae 135 mg/L.

Polyol/plasticizer blend not classified as toxic to aquatic environment.

Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.

13. Disposal Considerations

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

Not regulated for transport by any mode.
EMERGENCY SHIPPING: CHEMTREC, 800-424-9300 or +1-703-527-3887

15. Regulatory Information

U.S. FEDERAL REGULATIONS:
CERCLA 103 Reportable Quantity: Not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III:
Section 311/312: Acute Health, Chronic Health
Section 313 Toxic Chemicals: Does not contain 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 are listed on TSCA.

STATE REGULATIONS:
California Proposition 65: WARNING: These products contain a chemical known to cause cancer. (This warning is required owing to the presence of plasticizer ingredient deemed by CA to cause cancer. But the same plasticizer is not classified as hazardous under GHS.)

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: Intended for professional/ industrial use only.
SDS Revision Notes: Removed Polygel® 35 Part B owing to different GHS classification and minor corrections.
Disclaimer: The information contained herein is considered accurate; however, Polytek 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.