

1. Identification

Product Identifier: **Poly 74-Series Liquid Rubber Part A
Poly 75-Series Liquid Rubber Part A**

Product Code(s): 74A; 75A

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:

Acute Toxicity - Inhalation Category 4
Skin Irritation Category 2
Eye Irritation Category 2A
Respiratory Sensitization Category 1
Skin Sensitization Category 1
Carcinogenicity Category 2
Specific Target Organ Toxicity Single Exposure Category 3 (H335)

Label Elements: Danger



Hazard Phrases

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

Precautionary Phrases

P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing vapors or mists.
P264 Wash thoroughly after handling.
P280 Wear protective gloves, protective clothing, eye protection, and face protection.
P285 In case of inadequate ventilation, wear respiratory protection.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+340 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P308+313 IF exposed or concerned: Get medical attention.
P362 Take off contaminated clothing and wash before reuse.
P403+233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents and container in accordance with local, regional and national regulations.

Supplemental Information: Individuals sensitized to isocyanates should discontinue use. Long-term overexposure to isocyanates may cause lung damage. This is one part of a two-part system. Read and understand the hazard information on part B before using.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Toluene Diisocyanate (TDI)	26471-62-5	≤2
Polyether polyol-TDI prepolymer	9057-91-4	85-90

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. Get prompt medical attention.

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 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 immediate medical attention.

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

Most Important Symptoms/Effects: Causes skin and eye irritation. Vapors or mists may cause respiratory irritation. May cause allergic skin and/or respiratory reaction in sensitized persons. Symptoms include skin rash, wheezing, shortness of breath and other asthma symptoms.

Indication of Immediate Medical Attention/Special Treatment: Immediate medical attention is required for asthmatic symptoms or serious inhalation exposures. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Persons sensitized to Diisocyanates should consult a physician before working with respiratory irritants or sensitizers.

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. 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. Do not seal the container since CO₂ is generated on contact with moisture and dangerous pressure buildup can occur. Decontaminate floor area with a mixture of water plus isopropyl alcohol (10-20%), household ammonia (10%), and detergent (2%).

7. Handling and Storage

Safe Handling: Avoid breathing vapors or mists. 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°F and 95°F (13°C and 35°C). Store in original, unopened containers. Protect from atmospheric moisture and water since TDI reacts with water to form CO₂ leading to potentially dangerous pressure build up in sealed containers.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: For TDI:

OSHA PEL 0.02 ppm (C)
ACGIH TLV 0.005 ppm TWA; 0.02 ppm STEL

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: Clear pale yellow to amber liquid

Odor: Pungent, slightly sweet

Odor Threshold: Not determined

pH: Not applicable

Melting Point: No data available

Boiling Point: No data available

Flash Point: >350°F (177°C) estimated

Evap. Rate: No data available

Flammable Limits: No data available

Vapor Pressure: ≤0.01 mm Hg @ 20°C

Vapor Density: No data available

Relative Density: 1.05 @ 25°C

Solubility: Insoluble in water

Partition Coefficient: n-octanol/Water: Reacts with water

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 5,000-10,000 cP

10. Stability and Reactivity

Reactivity: Diisocyanates react with many materials and the rate of reaction increases with temperature. Reaction with water generates carbon dioxide and heat.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: Elevated temperatures can cause hazardous polymerization. Polymerization can be catalyzed by strong bases or water. Reaction with water generates carbon dioxide, and results in heat and pressure buildup in closed systems.

Conditions to Avoid: Avoid moisture and temperatures below 55°F (13°C) and above 95°F (35°C) to protect product integrity.

Incompatible Materials: Avoid contact with water, acids, bases, alcohols, strong oxidizers, and some metals (e.g., aluminum, zinc, brass, tin, copper).

Hazardous Decomposition Products: Possibly isocyanate vapor, carbon monoxide, nitrogen oxides, and traces of hydrogen cyanide.

11. Toxicological Information

Eye Contact: Causes serious eye irritation. May cause temporary corneal injury.

Skin Contact: May cause irritation. Repeated skin contact may cause an allergic skin reaction. Animal studies indicate that skin contact with isocyanates may elicit respiratory sensitization.

Inhalation: At room temperature, vapors are minimal due to low volatility. Vapors or aerosols (e.g., generated during heating or spraying) may cause respiratory irritation and possibly pulmonary edema, or respiratory sensitization. For individuals sensitized to TDI, exposure may

result in allergic respiratory reactions (e.g., coughing, wheezing, difficulty breathing).

Ingestion: Single oral dose toxicity is low. May cause adverse gastrointestinal effects.

Chronic Health Effects: Repeated or prolonged exposure to isocyanates may cause an allergic sensitization of the respiratory tract causing an asthma-like response upon re-exposure. Repeated overexposure to isocyanates has been associated with decreased lung function. Repeated or prolonged dermal contact with this product may cause allergic skin sensitization in some individuals. No test data. Product is not expected to be a mutagen or reproductive toxin.

Acute Toxicity Values: For TDI: Oral rat LD₅₀ >2,000 mg/kg; Skin rabbit LD₅₀ >9,400 mg/kg; Inhalation rat LC₅₀ 0.48 mg/L/1 hr (aerosol) (equivalent 0.24 mg/L/4 hr). Calculated ATE_{mix} LC₅₀ 12.0 mg/L/4 hr.

Carcinogenicity: TDI is an IARC 2B carcinogen and classified as reasonably anticipated to be a human carcinogen by NTP. No other ingredients are classified as carcinogens by IARC, NTP, or OSHA.

Specific Target Organ Toxicity: Single Exposure: Classified as STOT-SE Category 3 for respiratory irritation. Repeat Exposure: Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposures to TDI aerosols.

12. Ecological Information

Poly 74A and 75A react with water to form insoluble polyureas.

Movement in the aquatic and terrestrial environment would be limited.

Product is not readily biodegradable and not expected to bioaccumulate.

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

Not regulated for transport in any mode.

EMERGENCY SHIPPING: CHEMTREC, 800-424-9300 or +1-703-527-3887

15. Regulatory Information

U.S. FEDERAL REGULATIONS:

CERCLA Reportable Quantity: RQ for TDI is 100 lb. 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 contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

Toluene Diisocyanate CAS 26471-62-5 ≤2%

EPA Toxic Substances Control Act (TSCA) Status: Components of this product are listed on the TSCA inventory.

STATE REGULATIONS:

California Proposition 65: WARNING: This product can expose you to chemicals including Di-isononyl phthalate (DINP) and Toluene diisocyanate, which is known to the State of California to cause cancer. www.P65Warnings.ca.gov

16. Other Information

Training Advice: Train personnel using this product in proper chemical handling, engineering controls and protective equipment.

Recommended Uses and Restrictions: This product is intended for industrial/professional use only.

SDS Revision Notes: Updated Prop 65, August 9, 2018; Reviewed, no revisions: May 22, 2018, Minor revisions throughout; April 28, 2015.

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.

1. Identification

Product Identifier: **Poly 74-20 Liquid Rubber Part B**
Poly 74-24 Liquid Rubber Part B
Poly 74-29 Liquid Rubber Part B
Poly 74-29 White Liquid Rubber Part B
Poly 74-30 Liquid Rubber Part B
Poly 74-30 Clear Liquid Rubber Part B
Poly 74-30 HT Liquid Rubber Part B
Poly 74-31 Liquid Rubber Part B
Poly 74-41 Liquid Rubber Part B
Poly 74-45 Liquid Rubber Part B

Product Code(s): 74-20B, 74-24B, 74-29B, 74-29WHITEB,
74-30B, 74-30CLEARB, 74-30HTB, 74-31B,
74-41B, 74-45B

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:

Specific Target Organ Toxicity - Repeated Exposure Category 2

Label Elements: Warning!



Contains Diethyltoluenediamine

Hazard Phrases

H373 May cause damage to pancreas through prolonged or repeated exposure.

Precautionary Phrases

P260 Do not breathe vapors.
P314 Get medical advice if you feel unwell.
P501 Dispose of contents and container to licensed, permitted incinerator, or other thermal destruction device in accordance with local and national regulations.

Supplemental Information: None known.

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	1-<3%

4. First-Aid Measures

Eye Contact: Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Get medical attention if irritation persists.

Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation persists.

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

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

Most Important Symptoms/Effects: May cause mild eye and skin irritation. May be harmful if swallowed.

Indication of Immediate Medical Attention/Special Treatment: Immediate medical attention is not 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 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 below 120°F (49°C). Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

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 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: Liquid of varied colors

Odor: Slightly pungent

Odor Threshold: No data available

pH: Not applicable

Melting Point: No data available

Boiling Point: No data available

Flash Point: > 350°F (>177°C)

Evaporation Rate: No data available

Upper/Lower Flammability Limits: No data available

Vapor Pressure: <0.01 mm Hg @ 25°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: 150-1500 cP

10. Stability and Reactivity

Reactivity: Not normally reactive.
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.
Hazardous Decomposition Products: Thermal decomposition will generate oxides of carbon and nitrogen, organic acids, and other toxic organic compounds.

11. Toxicological Information

Eye Contact: May cause moderate irritation.
Skin Contact: May cause mild irritation.
Inhalation: Vapor and mists may cause mild respiratory irritation.
Ingestion: Single oral dose toxicity is low. No harmful effects anticipated from ingesting small amounts incidental to normal handling. Large amounts may cause gastrointestinal effects.
Chronic Health Effects: Not determined; but, based on laboratory animal studies, diethyltoluenediamine ingredient may cause damage to the pancreas, liver, thyroid and eyes through prolonged exposure.
Acute Toxicity Values:
For Diethyltoluenediamine: Oral rat LD50 738 mg/kg; Inhalation rat LC50 2.45 mg/L/1 hr; Dermal rabbit LD50 >2000 mg/kg
Skin Corrosion/Irritation: Relevant components are not skin irritants.
Eye Damage/Irritation: Relevant compounds are not eye irritants.
Respiratory Irritation: Relevant components are not classified as respiratory irritants.
Respiratory Sensitization: Relevant components are not respiratory sensitizers.
Skin Sensitization: Components are not skin sensitizers.
Germ Cell Mutagenicity: Components are not mutagens.
Carcinogenicity: None of the components are carcinogens.
Reproductive Toxicity: None of the components are reproductive toxins.
Specific Target Organ Toxicity:
Single Exposure: No data available
Repeat Exposure: Diethyltoluenediamine may cause damage to the pancreas through repeated or prolonged exposure.

12. Ecological Information

Ecotoxicity: One ingredient is harmful to aquatic organisms: diethyltoluenediamine (Fish LC50 200 mg/L/48 hr; Daphnia EC50 0.5 mg/L/48 hr). But based on Additivity Formula, product is not classed as hazardous to the aquatic environment.
Persistence and Degradability: Not readily biodegradable.
Bioaccumulative Potential: Not expected to bioaccumulate.
Mobility in Soil: No data available.

13. Disposal Considerations

Dispose according to local, state and federal regulations.

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: This product is 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: 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 of the components of this product are listed on TSCA.

STATE REGULATIONS:

California Proposition 65: This product does not contain substances known to the State of California to cause cancer and/or reproductive harm.

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: Review/no changes July 16, 2018 GHS format and classification changes. Change in product grouping. December 6, 2013

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.

1. Identification

Product Identifier: **Pol-Ease® 2300 Release Agent**
Pol-Ease® 2500 Release Agent
 Product Code(s): 2300, 2500
 Use: Aerosol release agent for mold making and casting. For Industrial/Professional use only.
 Manufacturer: Polytek Development Corp.
 55 Hilton St., Easton, PA 18042
 Phone Number: 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:

Flammable Aerosol Category 2
 Gases Under Pressure – Liquefied gas

Label Elements: Warning



Hazard Phrases

H223 Flammable aerosol.
 H280 Contains gas under pressure; may explode if heated.

Precautionary Phrases

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Pressurized container: Do not pierce or burn, even after reuse.
 P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P381 Eliminate all ignition sources if safe to do so.
 P410+403+412 Protect from sunlight. Store in a well-ventilated place.
 Do not expose to temperatures exceeding 50°C/122°F.

Supplemental Information: Avoid breathing aerosol spray. Use in a well-ventilated area and wear a dust mask.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Dimethyl ether	115-10-6	35-55
1,1-Difluoroethane	75-37-6	35-55

4. First-Aid Measures

Eye Contact: Rinse thoroughly with water for at least 15 minutes. Remove contact lenses if safe and easy to do so, and continue rinsing. Get medical attention if irritation persists.

Skin Contact: Wash contact area thoroughly with soap and water. Treat frostbite if needed. Get medical attention if irritation persists.

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

Ingestion: Do not induce vomiting. Seek medical attention if symptoms develop.

Most Important Symptoms/Effects: Skin contact may cause skin drying and/or freezing. Breathing large amounts is harmful and may cause temporary central nervous system depression with anesthetic effects such as dizziness, headache, and loss of coordination and/or consciousness. Exposures to high concentrations can cause irregular heartbeat, cardiac arrest and death. Exposure to very high concentrations can cause asphyxiation.

Indication of Immediate Medical Attention/Special Treatment:

Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should only be used in emergency life support situations.

5. Fire-Fighting Measures

Extinguishing Media: Use water, foam, dry chemical or carbon dioxide. Use water spray to cool containers.

Specific Hazards: Extremely flammable. Keep away from heat, sparks and flames. Vapors are heavier than air and may travel long distances to ignition source. Containers may rupture or explode under fire conditions.

Combustion Products: Carbon monoxide, carbon dioxide, hydrofluoric acid, carbonyl fluoride, formaldehyde and other unidentified 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: Remove ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing to avoid eye and skin contact and avoid breathing vapor/aerosol.

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: Keep away from heat, sparks, and open flames. Avoid breathing vapors, aerosols and mists. 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.

Safe Storage: Store in a cool, dry area in a well-ventilated area away from ignition sources.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: Manufacturer recommends exposure limit of 1000 ppm (TWA). For 1,1-Difluoroethane: 1000 ppm AIHA WEEL TWA.

Ventilation: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: If needed, wear a dust mask or a NIOSH-approved respirator with organic vapor cartridges.

Skin Protection: Wear impervious gloves, such as butyl rubber or nitrile rubber.

Eye Protection: Wear safety glasses or goggles.

Other Protective Measures: 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: Clear, colorless aerosol

Odor: Slight ethereal

Odor Threshold: No data available

pH: Not applicable

Melting Point: No data available

Boiling Point: No data available

Flash Point: Not applicable (aerosol)

Evap. Rate: 0.1-0.5 (n-butyl acetate = 1)

Flammability Limits: No data available

Vapor Pressure: 79 psig @ 20°C

Vapor Density: 2.04 (air = 1)

Relative Density: 0.8 @ 25°C

Solubility: Negligible in water (0-1%)
Partition Coefficient: No data available
Auto-Ignition Temp: No data available
Decomposition Temp: No data available
Viscosity: Not applicable (aerosol)
Chemical Heat of Combustion: 15 kJ/g

10. Stability and Reactivity

Reactivity: Not normally reactive.
Chemical Stability: Stable under recommended conditions.
Possibility of Hazardous Reactions: Reaction with peroxides may result in explosion.
Conditions to Avoid: Avoid excessive heat, sparks, flames and ignition sources. Avoid contact with alkalis, alkaline earth metals, powdered metals, oxidizers and organic acids.
Incompatible Materials: Avoid contact with oxidizing agents. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.
Hazardous Decomposition Products: Hydrofluoric acid, carbonyl fluoride, carbon monoxide and carbon dioxide.

11. Toxicological Information

Eye Contact: May cause eye irritation and/or tissue damage.
Skin Contact: May cause skin irritation or freezing.
Inhalation: May cause mild respiratory irritation.
Ingestion: Not known.
Chronic Health Effects: No data available.
Acute Toxicity Values: Acute Toxicity Values:
Dimethyl ether: Rat LC₅₀ >164,000 ppm
1,1-Difluoroethane: Mouse LC₅₀ 977 gm/m³/2 hr
Germ Cell Mutagenicity: Components are not mutagens.
Carcinogenicity: To the best of our knowledge, this product does not contain constituents at concentrations exceeding 0.1% that are listed as carcinogens by IARC, NTP, or OSHA.
Reproductive Toxicity: Components are not reproductive toxins.
Specific Target Organ Toxicity: Single Exposure or Repeat Exposure: Not classified as STOT, however, excessive exposures may have harmful effects on the central nervous system.

12. Ecological Information

Ecotoxicity: This material is not classified as harmful to aquatic organisms.
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. In US, upon disposal, may be RCRA hazardous waste (D003).

14. Transport Information

UN Number: 1950
UN Proper Shipping Name: Aerosols (For IATA: Aerosols, flammable)
Transport Hazard Class: 2.1
Packing Group: Not applicable
Environmental Hazards: Not applicable
Transport in Bulk: Not applicable
Special Precautions: None known
Emergency Shipping Info: CHEMTREC, 800-424-9300 or +1-703-527-3887

15. Regulatory Information

U.S. FEDERAL REGULATIONS:
CERCLA 103 Reportable Quantity: Not applicable.
SARA TITLE III
Section 311/312: Not applicable
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 of the components of this product are listed on TSCA.
STATE REGULATIONS:
California Proposition 65: To the best of our knowledge, this product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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: Revised GHS Classification owing to completion of Ignition Distance Testing per UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS Purple Book), Rev. 3 (2.3.2.2) and 29 CFR 1910.1200, Appendix B (B.3.2.2).
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.

1. Identification

Product Identifier: **Pol-Ease® 2650 Release Agent**
 Product Code(s): 2650
 Use: Release agent for use with polyurethane molds. For Industrial/Professional use only.
 Manufacturer: Polytek Development Corp.
 55 Hilton St., Easton, PA 18042
 Phone Number: 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:
Aspiration Hazard 1

Label Elements: Danger



Hazard Phrases

H304 May be fatal if swallowed and enters airways.

Precautionary Phrases

P301+310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental Information: May cause mild eye and skin irritation. Avoid contact with eyes and mucous membranes.

3. Composition/Information on Ingredients

Chemical Name	CAS #	GHS Classification	%
White mineral oil	8042-47-5	Aspiration Hazard 1	85-100
Ingredients are not classified as health and/or environmental hazards, and/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. Get medical attention if irritation develops and persists.

Skin Contact: Wash contact area thoroughly with soap and water. Get medical attention if irritation develops and persists.

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Ingestion: Call a physician/poison control center immediately. Rinse mouth. Do NOT induce vomiting unless instructed by a doctor. If vomiting occurs, keep head low so that stomach content doesn't get into lungs.

Most Important Symptoms/Effects: Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation.

Indication of Immediate Medical Attention/Special Treatment: Provide general supportive measures and treat symptomatically.

5. Fire-Fighting Measures

Extinguishing Media: Carbon dioxide, dry chemical, foams, or water spray.

Specific Hazards: Not classified as flammable or combustible. May generate formaldehyde in fire conditions.

Special Protective Equipment and Precautions for Fire-Fighters: Wear SCBA & full-body protective suit. Cool hot containers with water.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Remove ignition sources. Clear non-emergency personnel from the area. Caution: spill area may be slippery. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapors.

Methods and Materials for Containment and Cleanup: Contain spill and prevent/minimize release to the environment. Collect and containerize material for disposal. Avoid releases into the environment.

7. Handling and Storage

Safe Handling: Avoid contact with eyes, skin (especially mucous membranes) and clothing. Use in a ventilated area. Wash hands after handling. Avoid breathing vapors and mists.

Safe Storage: Store indoors at temperatures between 55°F and 95°F. Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

8. Exposure Controls/Personal Protection

Exposure Limits: No OSHA or ACGIH exposure limits apply.

Engineering Controls: Adequate ventilation should be provided to minimize exposure levels.

Personal Protective Equipment: Wear eye protection (e.g., chemical safety glasses) and rubber (e.g., nitrile) gloves. If needed (i.e. ventilation is inadequate), use a NIOSH-approved air-purifying respirator with organic vapor cartridges.

Other Protective Measures: An eyewash and washing facility should be available in the work area.

9. Physical and Chemical Properties

Appearance: Colorless liquid

Odor: No odor

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

Boiling Point: No data available

Flash Point: ≥ 357 °F (estimated based on flash points of ingredients)

Evap. Rate: >1 (butyl acetate =1)

Flammability Limits: No data available

Vapor Pressure: <1 mm Hg @ 68°F

Vapor Density: No data available

Relative Density: 0.85 @ 25°C

Solubility: Insoluble in water

Partition Coefficient: No data available

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 10-20 cP @ 25°C

10. Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: Under recommended conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid: Avoid freezing.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Products: Carbon monoxide, aldehydes, and other potentially toxic and irritating compounds.

11. Toxicological Information

Eye Contact: May cause mild irritation.

Skin Contact: May cause mild irritation.

Inhalation: Harmful if inhaled.

Ingestion: Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Chronic Health Effects: None known.

Acute Toxicity Values: No data available.

Germ Cell Mutagenicity: Components are not known mutagens.

Carcinogenicity: Relevant components are not listed as known or suspected carcinogens by NTP, IARC or OSHA.

Reproductive Toxicity: Relevant components are not known or suspected reproductive toxins.

Specific Target Organ Toxicity: Relevant components are not known or suspected toxins to specific target organs.

12. Ecological Information

Ecotoxicity: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the 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, regional and national regulations.

For U.S.: Upon disposal, these products are not RCRA hazardous waste (per 40 CFR 261).

14. Transport Information

Not regulated for transport by any mode.

Emergency Shipping Info: 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 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: Not applicable.

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: The components of this product are listed on TSCA.

STATE REGULATIONS:

California Proposition 65: Based on information available, this product does not contain substances known to the State of California to cause cancer and/or reproductive harm.

16. Other Information

Training Advice: All personnel using/handling these products 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: New GHS classification/SDS update. July 13, 2018 New GHS format. Feb. 10, 2015

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.