

POLY 74/75-SERIES PART A

Material Safety Data Sheet

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.

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2. HAZARDS IDENTIFICATION

GHS Classification:

Acute Toxicity -

Skin Irritation

Eye Irritation

Respiratory Sensitization

Skin Sensitization

Carcinogenicity

Specific Target Organ Toxicity Single Exposure

Label Elements:

Hazard Phrases

H315

H317

H319

H332

H334

H335

H351

Precautionary Phrases

P202

P261

P264

P280

P285

P302+352 IF ON SKIN:

P305+351+338 IF IN EYES:

P304+340 IF INHALED:

P308+313 IF exposed or concerned:

P362

P403+233

P501

Supplemental Information:

Inhalation Category 4

Category 2

Category 2A

Category 1

Category 1

Category 2

Category 3 (H335)

Danger

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

Suspected of causing cancer.

Do not handle until all safety precautions have been read and understood.

Avoid breathing vapors or mists.

Wash thoroughly after handling.

Wear protective gloves, protective clothing, eye protection, and face protection.

In case of inadequate ventilation, wear respiratory protection.

Wash with plenty of soap and water.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

Get medical attention.

Take off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep container tightly closed.

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

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.



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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 re-use. 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 CO ₂ 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 13°C and 35°C (55°F and 95°F). Store in original, unopened containers. Protect from atmospheric moisture and water since TDI reacts with water to form CO ₂ leading to potentially dangerous pressure build up in sealed containers

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

For TDI:	OSHA PEL ACGIH TLV 0.005	0.02 ppm (C) ppm TWA; 0.02 ppm STEL
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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 13°C (55°F) and above 35°C (95°F) 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.

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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 ATEmix 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 STOTSE 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

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 contains a chemical known to the state of California to cause cancer. (TDI)

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: Minor revisions throughout; April 28, 2015.

Disclaimer: The information contained herein is considered accurate; however, Schouten Group 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.

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