

SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CONGO FLEX - PART A

Company: POLYGEM INC.
PO Box 609
West Chicago, Illinois 60185

Telephone: 630-231-5600
630-231-5604 (Fax Line)

Emergency Telephone Number: 1-800-535-5053 USA
01-352-323-3444 International

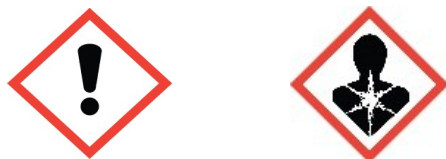
Section 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Skin irritation: Category 2
Skin Sensitization Category 2
Eye irritation: Category 2
Respiratory Sensitization, Category 1
Skin Sensitization, Category 1
Target organ toxicity single exposure, Category 3
Target organ toxicity repeated exposure, Category 2
Carcinogenicity, Category 2

GHS LABEL ELEMENTS:

HAZARD SYMBOLS:



SIGNAL WORD: Danger

HAZARD STATEMENTS: H315 Causes skin irritation.

H315 Causes skin irritation
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330: Fatal if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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H335: May cause respiratory irritation.
H351: Suspected of causing cancer

PRECAUTIONARY STATEMENTS:

Prevention:

P260: Do not breathe mist, vapors or spray.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves, protective clothing, eye protection and face protection.
P284: Wear respiratory protection

RESPONSE:

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs: Get medical attention.
P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P342+P411: If experiencing respiratory symptoms: Call a physician.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical attention.
P308+P313: IF exposed or concerned: Get medical advice.

STORAGE: Not applicable.

DISPOSAL: P501 Dispose of contents and containers in accordance with local, regional and international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

HMIS RATING:

CHEMICAL NAME	
HEALTH	
FLAMMABILITY	
PHYSICAL HAZARD	
PERSONAL PROTECTION	

Section 2 - HAZARDS IDENTIFICATION (CONTINUED)

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Potential Health Effects

Eye contact: Mild or moderate irritation, possible minor temporary cornea injury.
Skin contact: May cause skin irritation on prolonged or repeated exposure.
Skin absorption: Not considered toxic.
Inhalation: May cause nasal irritation, central nervous system depression or lung injury.
Chronic effects of over exposure: None

OSHA GHS Classification

This product is classified as hazardous as defined within the GHS OSH Hazard Communication Standard 29CFR1910 1200

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Component % (weight) Product Identifier

TDI Prepolymer 85-95
Toluene diisocyanate, mixed isomers < 10 CAS No. 26471-62-5

Section 4 - FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water. Remove contact lenses, if present. Seek medical attention if irritation persists.
Skin Contact: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Seek medical attention if irritation or rash occurs.
Ingestion: If person is conscious, wash out mouth with water. Do not induce vomiting unless instructed to do so by a poison center or physician.
Inhalation: Move person to fresh air. Seek medical attention if symptoms of respiratory distress occur. Symptoms can be delayed for several hours.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media: Water fog, foam, dry chemical or carbon dioxide.
Hazardous Combustion Products: Carbon oxides, nitrogen oxides and isocyanates.
Explosion Hazards: Water contamination produces carbon dioxide gas. This may cause pressurization or explosion of containers.
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Fire Fighting Procedures: Standard.
Fire Fighting Equipment: Exposed firefighters must wear NIOSH-approved positive pressure selfcontained breathing apparatus with full-face mask and full protective clothing

Section 6: Accidental Release Measures

Personal Protection: Wear protective equipment listed in Section 8.
Spill Procedures: Isolate the hazard and deny entry to unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled material. **Small spills:** Absorb with dry chemical absorbent, earth, sand or any other inert material. Allow to stand uncovered 48 hours before closing container. **Large spills:** Create a dike or trench to contain product. Follow same procedure as for a small spill.
Environmental Precautions and Cleanup Methods: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Clean spill area with a decontamination solution. Suggested formulation: Sodium carbonate (5-10%), liquid detergent (1-2%), water (88-94%). Alternate formulation: Concentrated ammonia (3-8%), liquid detergent (1-2%), water (90-96%). Ensure adequate ventilation to prevent overexposure of ammonia.

Section 7: Handling and Storage

Handling: Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking or smoking.

Do not breathe vapors or mists. Use only with adequate ventilation. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flame.

Storage: Store in tightly closed containers in cool, dry and well-ventilated area away from heat or sources of ignition. Keep out of direct sunlight.

Storage Temperature: 4.4°C – 32.2°C (40°F - 90°F).

Section 8: Exposure Control/Personal Protection (continued)

Exposure limits:

Component CAS No. OSHA/PEL ACGIH/TLV

Toluene diisocyanate, mixed isomers 26471-62-5 0.005 ppm 0.02 ppm (STEL)

Engineering Controls: Local exhaust ventilation used in combination with general ventilation as necessary to control air contaminates.

Eye/Face Protection: Wear a face shield and chemical safety glasses or goggles.

Skin Protection: Wear impervious gloves. Cover exposed skin.

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Respiratory Protection: For airborne exposure above the exposure limit(s), wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use a positive-pressure air-supplying respirator.

Section 9: Physical and Chemical Properties

Appearance Cream liquid.

Odor Slightly musty.

Odor Threshold No data.

Melting Point No data.

Freezing Point No data.

Boiling Point No data.

Flash Point (Closed Cup) > 93.3°C (200°F)

Evaporation Rate No data.

Flammable Limits In Air No data.

Vapor Pressure < 0.017 mmHg at 25°C (77°F)

Vapor Density (air = 1) Heavier than air.

Solubility in water Insoluble, reacts with water.

Autoignition Temperature No data.

Decomposition Temperature No data.

Specific Gravity (water = 1) 1.05 at 25°C (77°F)

Viscosity (centipoise) 17000 at 25°C (77°F)

Section 10: Stability and Reactivity

Stability: Stable.

Hazardous Polymerization: Can be caused by elevated temperatures.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides and isocyanates.

Incompatibilities: This product will react with any materials containing active hydrogens such as water, alcohol, amines, bases and acids. The reaction with water is very slow under 50°C (122°F), but is accelerated at higher temperatures.

Section 11: Toxicological Information

Chemical Name

LD50/LC50

Acute:

Component Oral LD50 (rat) Dermal LD50

(rabbit) Inhalation LC50 (rat)

Toluene diisocyanate, mixed isomers 5110 mg/kg > 9400 mg/kg 0.48 mg/L/1h (respirable aerosol)

Carcinogenicity:

IARC: TDI is listed as a substance that is possibly carcinogenic to humans.

NTP: TDI is listed as a substance that is reasonably anticipated to be a human carcinogen.

OSHA: Not regulated as a carcinogen. Not established

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Section 12: Ecological Information

Ecotoxicological Information: No ecological information available.

TDI: LC50 (zebra fish) > 100 mg/L/96h. EC50 (Daphnia magna) 12.5 mg/L/48h.

Section 13: Disposal Considerations

Disposal Method: Dispose in accordance with local, state, provincial or national regulations.
Empty Container: Decontaminate and pass to an approved drum recycler or destroy.
RCRA/EPA Waste Information: If discarded in its purchased form, this material is not a RCRA hazardous waste.
General Comments: The generation of waste should be avoided or minimized whenever possible.
Chemical waste, even small quantities, should never be poured into drains, sewers or waterways.
Section 14: Transport Information
U.S. DOT: Not regulated when shipped below regulated quantity (RQ).

Section 14: Transport Information

Consult Bill of Lading for transportation information

DOT: Not Regulated
IATA: Not Regulated
IMDG: Not Regulated

Section 15: Regulatory Information

United States

SARA Title III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories: Acute, Chronic, Rea SARA Title III Regulations (40 CFR 370): Acute

313 Reportable Components:

Component CAS No. This material does not contain any substance which is subject to the reporting

Toluene diisocyanate, mixed isomers 26471-62- requirements of 40 CFR 372.

CERCLA (Comprehensive Environmental Response and Liability Act)

Component RQ (lbs) n/a

Toluene diisocyanate, mixed isomers 100

TSCA (Toxic Substances Control Act): All comp n/a

RCRA Status: If discarded in its purchased form, this material is not a RCRA hazardous waste.

National Response Center: Any spill or release to the environment above the RQ must be reported to the National Response Center (800-424-8802).

Section 16: Other Information

This information is furnished without warranty, representation inducement or license of any kind, except that is accurate to the best of Polygem Inc. knowledge, or obtained from sources believed by Polygem Inc. to be accurate and Polygem Inc. does not assure any legal responsibility for use reliance upon the same. Customers are encouraged to conduct their own tests. Before using any product, please read its label.

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