

MATERIAL SAFETY DATA SHEET for #023-062 Urethane Material

I. Product Identification

Trade Names: Urethane
Duro-Rubber
PMC-790 Part A
Part Number: 023-062
MFG's Name: Glendo Corporation
Address: 900 Overlander Rd.
Emporia, KS 66801
Phone: 620-343-1084

EMERGENCY HAZARD RATING

Health: 2 Flammability: 1 Reactivity: 1

II. Composition

Chemical Name: Polyurethane Prepolymer
Reg. by OSHA: N/A
CAS#: N/A
OSHA PEL: N/A
ACGIH / TLV: None Established
Exposure Limits: None Established
Weight Percent: 95-100

Chemical Name: Toluene Diisocyanate
(mixed isomers)
Reg. by OSHA: N/A
CAS#: 26471-62-5
OSHA PEL: N/A
ACGIH / TLV: 0.005 ppm
Exposure Limits: 0.005 ppm
Weight Percent: <1.0

III. Physical Properties

Physical State: Liquid
Appearance: Clear yellow viscous liquid
Odor: Sharp pungent odor
Vapor Pressure: None (Polymeric Resin)
Vapor Density
(Air=1): >1
Specific Gravity
(H₂O=1, at 4 °C): 1.04
Water Solubility: Negligible
Boiling Point: None (Polymeric Resin)
% Volatile: Nil
Freezing/Melting
Point: None (Polymeric Resin)
Viscosity: 50 poise
Evaporation Rate: N/A

IV. Fire and Explosion Data

Flash Point: >270 °F
Flash Point
Method: TOC
LEL: Not Established
UEL: Not Established
Flammability
Classification: Non-Flammable
Extinguishing
Media: Water Fog
Dry Chemical
Carbon Dioxide Foam

Unusual Fire or Explosion Hazards: Hazardous decomposition products may be formed. Avoid water contamination in closed containers or confined areas as exothermic heat and carbon dioxide can evolve. **Fire-Fighting Instructions:** Fire fighters should wear self-contained breathing apparatus. Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

V. Reactivity Data

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization can occur.

Chemical Incompatibilities: Strong bases, water, amines, alcohols.

Conditions to Avoid: Avoid contamination with water and other materials that react with Isocyanates.

Hazardous Decomposition Products: Toluene diisocyanate vapors, hydrogen cyanide gas, oxides of nitrogen, carbon monoxide and carbon dioxide

VI. Health Hazards Data

Eye Effects: Irritation

Skin Effects: Irritation

Carcinogenicity: IARC and NTP list Toluene Diisocyanate as a suspected carcinogen

Mutagenicity: None Determined

Teratogenicity: None Determined

Primary Entry Routes: Inhalation and Dermal

Target Organs: Lungs

Acute Effects Inhalation: Vapors cause irritation to respiratory tract and pulmonary edema can occur after a serious vapor exposure; pulmonary sensitization can occur in some individuals leading to asthma-like spasms of the bronchial tubes and difficulty in breathing; recent studies indicate overexposure may be associated with chronic lung impairment. **Eye:** May cause irritation, redness, tearing, and blur vision. Prolonged vapor contact may cause conjunctivitis. **Skin:** Contact will cause irritation, reddening, swelling, rash, scaling or blistering. Prolonged or repeated contact can cause moderate dermatitis. **Ingestion:** May have corrosive effects on the linings of the mouth and stomach: symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

Carcinogenicity: IARC and NTP list Toluene Diisocyanate as a suspected carcinogen.

Medical Conditions Aggravated by Long-Term

Exposure: Asthma, bronchitis, and emphysema, skin allergies, eczema.

First Aid Measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately. Asthma-like symptoms may develop immediately or be delayed several hours. **Eye Contact:** Flush eyes with plenty of water. If irritation persists, seek medical attention. **Skin Contact:** In case of skin contact, wash thoroughly with soap and water; remove contaminated clothing and laundry before reuse; seek medical attention if rash develops. **Ingestion:** Do not induce vomiting unless instructed by a physician. Contact physician immediately. After first aid, get appropriate paramedic, or community medical support.

VII. Spill Procedures

Only properly protected personnel should remain in the spill area; dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow federal, state, and local regulations regarding disposal.

VIII. Special Protection Information

Handling Precautions: Minimize breathing of vapors and avoids prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Avoid moisture contamination. Reseal partial containers. Use good general housekeeping procedures. **Storage Requirements:** Store in cool dry, well-ventilated area.

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source. **Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSH approved respirator. **Protective Clothing/Equipment:** Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses. **Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

This MSDS is based on data on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material. Smooth-on MSDS No. 679.



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