



MATERIAL SAFETY DATA SHEET

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I. PRODUCT IDENTIFICATION

PRODUCT NAME: **IS-40607B**
CHEMICAL FAMILY: Polyether Polyol

II. HAZARDOUS INGREDIENTS

INGREDIENT NAME/ CAS NUMBER	%	EXPOSURE LIMITS	
		OSHA PEL	ACGIH TLV

None.

This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200

III. PHYSICAL / CHEMICAL CHARACTERISTICS

APPEARANCE (physical form, color, texture, etc.)	Amber liquid.
ODOR:	Slight.
MELTING POINT:	Not Established.
BOILING POINT:	Not Established
VAPOR PRESSURE (mm Hg):	Not Established
VAPOR DENSITY (Air = 1)	Not Established
SPECIFIC GRAVITY (H ₂ O = 1):	Not Established
EVAPORATION RATE (Butyl Acetate = 1):	Not Established.
SOLUBILITY IN WATER:	Not Established.
OTHER:	

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (Method Used): >200 F (93.3 C) (Pensky-Martens Closed Cup).

FLAMMABLE LIMITS:

LEL (Lower Explosion Limit)= Not established.
UEL (Upper Explosion Limit)= Not established.

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical, water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate area. Fight fire from a safe distance. Fire-fighters should wear full emergency equipment with self-contained breathing apparatus and full protective clothing. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Material supports combustion. During a fire, irritating and toxic gases such as carbon monoxide may be generated by thermal decomposition or combustion. Do not spray fire directly. A solid stream of water directed into hot burning liquid could cause frothing.

UNUSUAL FIRE & EXPLOSION HAZARDS: Elevated temperatures can cause decomposition.

V. REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID (if unstable): Material can decompose at elevated temperatures. Use caution when storing and processing material above 212.4 C (414.3 F).

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing materials and isocyanates.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: By fire- CO₂, CO, and other aliphatic fragments which have not been determined.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (if polymerization may occur): Not applicable.

VI. HEALTH HAZARD DATA

ACUTE HEALTH HAZARDS:

INHALATION- This product is considered to be low in volatility at room temperature and therefore not likely to present an inhalation exposure hazard under normal working conditions using good industrial hygiene practices.

SKIN- May cause slight irritation.

EYE- Direct eye contact may cause minor irritation, but no corneal injury. If symptoms occur, they may include tearing and slight reddening of the eye.

INGESTION- May cause gastric disturbances. Only very slightly toxic by ingestion.

CHRONIC HEALTH HAZARDS:

No information was found concerning any adverse chronic health effects from overexposure to this product. However, it is reasonable to assume that upon repeated or prolonged contact, slight skin irritation may be possible or it may lead to a mild case of dermatitis or other allergic reaction.

CARCINOGENICITY:

NTP (National Toxicology Program)? No.

IARC (International Agency for Research on Cancer)? No.

OSHA REGULATED? No.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None reported.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION- Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen (qualified medical personnel only). See medical attention immediately.

SKIN- Remove all contaminated clothing and shoes. Wash skin thoroughly with soap and water for at least 15 minutes. Wash clothing before wearing again. Clean shoes before wearing again. If irritation develops or persists, consult a physician.

EYE- Flush with large amounts of water for at least 15 minutes, using fingers to hold eyelids open to insure that the eyes are being irrigated. Consult a physician if ill effects or irritation occurs.

INGESTION- Give two glasses of water for dilution. Never give anything by mouth to an unconscious person. Induce vomiting. Get medical attention immediately.

VII. PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

- Stop the spill or leak.
- Contain or dike the spilled product.
- Evacuate spill area and keep nonessential or unprotected personnel away.
- Equip clean-up personnel with necessary personal protective equipment (see Section VIII-Control Measures).
- Prevent spilled material from entering soil, sewers, surface water, ground water, streams, or any other bodies of water.
- Retain any contaminated water for removal and treatment.
- Absorb small spills with inert material (e.g. dry sand, earth, chemical absorbent, etc.).
- Scoop up absorbed material and absorbent and place in an approved chemical waste container.
- Large spills may be taken up with pump or vacuum & then finished off with dry absorbent.
- Report spill per regulatory requirements.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state, and local regulations.

EMPTY CONTAINER PRECAUTIONS: Empty containers retain product residue (liquid and/or vapor) and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. All containers should be disposed of in an environmentally safe manner and in accordance with applicable federal, state, and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: Store in cool, dry area. Containers should be tightly closed to prevent contamination with foreign materials and moisture. Material is not considered hazardous under normal handling operations, but reasonable care should be exercised. Avoid skin and eye contact. Avoid breathing vapors if generated. If contamination with isocyanates is suspected, do not reseal containers. Employee education and training in safe handling of this product are required under the OSHA Hazard Communication Standard.

OTHER PRECAUTIONS: None.

VIII. CONTROL MEASURES (INCLUDING PERSONAL PROTECTION)

VENTILATION: Good general ventilation should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, evaporation from large surfaces, spraying, heating, etc.

RESPIRATORY PROTECTION: If a respirator becomes necessary, the specific respirator selected must be based on contamination levels found in the work place and must not exceed the working limits of the respirator. An air-purifying respirator equipped with full-face organic vapor cartridge can be used if vapors are detected or are irritating. The use of respiratory protection must comply with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

SKIN PROTECTION: Permeation resistant gloves are recommended. PVC or rubber gloves. Barrier creams may be used, but their use should be kept to a minimum.

EYE PROTECTION: Chemical safety goggles or safety glasses with side shields should be worn. When handling or working with this product, it is recommended that contact lenses not be used.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety showers and eyewash stations should be readily available and in working condition.

WORK/HYGIENIC PRACTICES: Wash hands, forearms, and face thoroughly after handling product and before eating, smoking, using lavatory, and at the end of the day. Educate and train employees in safe use of product. Follow all label instructions.

IX. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STATUS: This product is not considered hazardous as defined under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

RCRA STATUS: Information not available.

--OR--

To the best of our knowledge, if discarded in its purchased form, this product would not be considered a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether a product meets any of the criteria for a hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity, and toxicity (40 CFR 261.20-24).

US INVENTORY (TSCA): The ingredients of this product are listed on the TSCA inventory or are not required to be listed on the TSCA inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA), TITLE III:

Sections 301-303 – Emergency Planning - Extremely Hazardous Substances:

None.

Section 304 – Emergency Release Notification – Reportable Substances:

None.

Section 311/312 – Community Right-to-Know Reporting Requirements - Emergency Hazard Categories:

None.

Section 313 – Toxic Chemical Notification & Release Inventory Reporting – Listed Substances:

None.

This information must be included in all MSDSs that are copied and distributed for this material.

IX. OTHER INFORMATION

HMIS RATINGS:

Health – 1 Flammability – 1 Reactivity – 0
(0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe, *=Chronic)

PPE – B (safety glasses, gloves; assuming a non-splash work environment with adequate ventilation. See Section VIII-Control Measures (Including Personal Protection) for more information.)

X. APPROVALS

PREPARED BY: ITWC Compliance Dept. (lrt)

APPROVED BY: ITWC Director of Technical Service. (sf)

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