



MATERIAL SAFETY DATA SHEET

ITWC, Inc.
P.O. Box 247
106 South Main Street
Malcom, IA 50157

(641)-528-3000
Fax: (641)-528-5403
Toll Free: (888)-489-2462
www.itwcinc.com

I. PRODUCT IDENTIFICATION

PRODUCT NAME: **IS-50444B**
CHEMICAL FAMILY: Polyether Polyol Blend

II. HAZARDOUS INGREDIENTS

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

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

III. PHYSICAL / CHEMICAL CHARACTERISTICS

APPEARANCE (physical form, color, texture, etc.)	Clear colorless liquid
ODOR:	Low odor.
MELTING POINT:	Not Available.
BOILING POINT:	Not Available.
VAPOR PRESSURE (mm Hg, @ 20°C):	Low
VAPOR DENSITY (Air = 1)	Not Available
SPECIFIC GRAVITY (H ₂ O = 1):	~1.02
EVAPORATION RATE (Butyl Acetate = 1):	Not Available.
SOLUBILITY IN WATER:	Low to moderate.

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (Method Used): >200°F (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.

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. Do not spray pool fires with direct water stream. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

UNUSUAL FIRE & EXPLOSION HAZARDS: None reported.

V. REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID (if unstable): Elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Upon burning, oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (if polymerization may occur): None.

VI. HEALTH HAZARD DATA

ROUTES OF ENTRY:

INHALATION? No.
SKIN CONTACT? Yes.
EYE CONTACT? Yes.
INGESTION? No.

ACUTE HEALTH HAZARDS:

INHALATION- Not expected to be a hazard due to low vapor pressure.

SKIN- May cause slight irritation.

EYE- May cause slight irritation.

INGESTION- May cause gastric disturbances.

CHRONIC HEALTH HAZARDS:

Upon repeated contact slight skin irritation is possible.

CARCINOGENICITY:

NTP (National Toxicology Program)? No.
IARC (International Agency for Research on Cancer)? No.
OSHA REGULATED? No.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION- Remove to fresh air.

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). Especially prevent skin and eye contact.
- 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. Keep container closed to maintain product quality.

OTHER PRECAUTIONS: None.

VIII. CONTROL MEASURES (INCLUDING PERSONAL PROTECTION)

VENTILATION: General mechanical ventilation.

RESPIRATORY PROTECTION: None required in normal use.

SKIN PROTECTION: PVC or rubber gloves.

EYE PROTECTION: Safety glasses with side shields or chemical goggles, if there is a possibility of splashing.

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. OTHER 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.

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

HMS RATINGS:

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

X. APPROVALS

PREPARED BY: ITWC Compliance Dept. (lrt)

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

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