

MATERIAL SAFETY DATA SHEET

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1. PRODUCT IDENTIFICATION

PRODUCT NAME: **IS-20550B**
CHEMICAL FAMILY: Polyol Blend

2. HAZARDOUS INGREDIENTS

<i>INGREDIENT NAME/ CAS NUMBER</i>	<i>%</i>	<i>EXPOSURE LIMITS</i>	
		<i>OSHA PEL</i>	<i>ACGIH TLV</i>
Polytertethylene ether glycol (CAS#25190-06-1)	>75%	Not established.	Not established
Di-(methylthio)toluenediamine (DMTDA) (CAS# 106264-79-3)	<25%	Not established.	Not established
Containing:			
1,3-Benzenediamine, 4-methyl-2,6-bis(methylthio)- (CAS# 102093-68-5)		Not established.	Not established.
and			
1,3-Benzenediamine, 2-methyl-4,6-bis(methylthio)- (CAS# 104983-85-9)		Not established.	Not established.

3. HEALTH HAZARD DATA

ROUTES OF ENTRY:

<i>INHALATION?</i>	Yes.
<i>SKIN CONTACT?</i>	Yes.
<i>EYE CONTACT?</i>	No
<i>INGESTION?</i>	No.

HEALTH HAZARDS:

INHALATION- Not expected to be a route of exposure due to low volatility of one of the components at room temperature.

SKIN- Contact may cause skin irritation with discomfort or rash.

EYE- Contact may cause eye irritation with discomfort, tearing, or blurring of vision.

INGESTION- Not expected to be a primary route of exposure.

CARCINOGENICITY:

NTP (National Toxicology Program)? No.

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

OSHA REGULATED? No.

4. 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.

5. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (Method Used): 160° C (320° 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. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

UNUSUAL FIRE & EXPLOSION HAZARDS: Thermal decomposition begins at about 300° F (150° C), releasing tetrahydrofuran. Spills on high-surface-area materials, such as fibrous insulation, can decompose rapidly, releasing very flammable tetrahydrofuran, carbon monoxide, etc.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING & STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: Absorbs moisture. Keep containers tightly closed. Purge with nitrogen and close container when not in use. Store in a well-ventilated, dry area. Avoid contact with strong oxidizers or acids. Avoid contact with eyes, skin, clothing. Wash thoroughly after handling.

OTHER PRECAUTIONS: None known.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

VENTILATION: Good ventilation should be maintained as a precaution. Use local exhaust to control vapors / mists.

RESPIRATORY PROTECTION: If vapors or mists are generated, wear a NIOSH approved organic vapor/mist respirator.

SKIN PROTECTION: Wear impervious gloves, coveralls, aprons, boots as necessary to minimize skin contact. If handling hot material, wear thermal resistant gloves.

EYE PROTECTION: Wear safety glasses with side shields. If handling hot material, wear chemical goggles. Wear face shield if a splash hazard exists.

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.

9. PHYSICAL / CHEMICAL CHARACTERISTICS

APPEARANCE (physical form, color, texture, etc.)	Light Amber Liquid
ODOR:	Amine like
MELTING POINT:	45° C (113° F)
BOILING POINT:	Decomposes at 175° C (347° F)
VAPOR PRESSURE (mm Hg):	Negligible.
VAPOR DENSITY (Air = 1)	Not volatile.
SPECIFIC GRAVITY (H ₂ O = 1): @25°C	1.02
EVAPORATION RATE (Butyl Acetate = 1):	Not determined.
SOLUBILITY IN WATER:	Not determined.

10. STABILITY & REACTIVITY DATA

STABILITY: Stable at normal temperatures.

CONDITIONS TO AVOID (if unstable): High heat and exposure to air.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers & acids (such as nitric acid, concentrated hydrogen peroxide,

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Includes oxides of carbon, nitrogen, and sulfur. Can also release very flammable tetrahydrofuran.

HAZARDOUS POLYMERIZATION: Will not occur.

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

11. TOXICOLOGICAL INFORMATION

Polytertammethylene ether glycol

Animal data:

Acute toxicity: LC50/inhalation/ 4hr/ rat>3.4mg/l
LC50/ oral/ rat >11000 mg/kg.
Local effects: Moderate skin irritation. Mild eye irritation.
Specific effects: Not mutagenic in AMES test.

Excessive exposures may affect human health, as follows:

Skin: irritation; discomfort; rash.
Eyes: irritation; discomfort; excessive lachrymation; blurred vision.

Di-(methylthio)toluenediamine

(DMTDA) (CAS# 106264-79-3) : Oral LD50 (rat) = 1515 mg/kg
Dermal LD50 (rabbit) >2000 mg/kg

Chronic Effects of Overexposure: Rats given this product in the diet for up to 90 days showed increased liver metabolic activity. There was kidney effects observed that were unique to male rats. These effects were similar to changes that have been observed in male rats similar to changes that have been observed in male rats given hydrocarbons. These effects resolved in animal s allowed 30 days recovery. Rats treated for 24 months did not have microscopic alterations in any tissues compared to control animals. Tumors seen in control and treated animals were usual for the age and strain of rats.

Genetic Test Data: Ames salmonella/ Microsome: Dose response increase with S-9. CHO/HGPRT: No activity.

INVTRO CYTOGENETICS: Increase in aberrations with and without S-9 at toxic levels.

UNSCHEDULED DNA SYNTHESIS: No activity.

INVTRO CELL TRANSFORMATION: No activity.

12. ECOLOGICAL INFORMATION

Polytertammethylene ether glycol

Ecotoxicity effects:

Aquatic toxicity: EC50 / 48h/ daphnia >1000 mg/l (solid)
>100 mg/l (liquid)

Di-(methylthio)toluenediamine

(DMTDA) (CAS# 106264-79-3): Marine Pollutant

Revision Date: 4-13-07

Product: IS-20550B

MSDS
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13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state, and local regulations. Do not discharge into waterways or sewer systems without proper authority. Incinerate or bury in a licensed facility.

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.

14. TRANSPORTATION INFORMATION

Land transport (DOT)

Proper Shipping Name: ENVIRONMENTALLY
HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (AROMATIC AMINES)
Hazard Class or Division 9
UN/NA Number: UN3082.
Package Group: III.
Hazard Label(s):

Sea transport (IMDG)

Proper Shipping Name: ENVIRONMENTALLY
HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (AROMATIC AMINES)
Hazard Class or Division
UN/NA Number:
Package Group:
Hazard Label(s):

Air Transport (ICAO/IATA)

Proper Shipping Name: ENVIRONMENTALLY
HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (AROMATIC AMINES)
Hazard Class or Division
UN/NA Number:
Package Group:
Hazard Label(s):

Additional Transportation Information

This material is considered a marine pollutant.
Not regulated for transportation in "non bulk" packaging.

15. 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:

Health: Immediate (Acute)

Health: Delayed (Chronic)

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.

16. OTHER INFORMATION

HMS RATINGS:

Health – 2 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.)

PREPARED BY: ITWC Compliance Dept. (lrt)

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

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