

Safety Data Sheet

Issue Date: 18-Jan-2000

Revision Date: 28-Mar-2014

Version 1

1. IDENTIFICATION

Product Identifier

Product Name 8451 Inter-Foam 5 sec Flexible Foam SIDE B

Other means of identification

SDS # IES-FO8451B

Recommended use of the chemical and restrictions on use

Recommended Use Expandable Foam.

Details of the supplier of the safety data sheet

Supplier Address

International Epoxies & Sealers
30241 Commerce Drive
San Antonio, FL 33576

Emergency Telephone Number

Company Phone Number 1-800-451-7206
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Black viscous liquid

Physical State Liquid

Odor Amine

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Polyether Polyol	PROPRIETARY	90-95
Triethylenediamine	280-57-9	1-5
Dibutyltin dilaurate	77-58-7	1-2

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Flush eyes with plenty of water for at least 15 minutes. Use fingers to assure that the eyelids are separated and that the eye is being irrigated. Consult a physician.
Skin Contact	Remove all contaminated clothing and shoes. Wash skin with large quantities of water and soap. Wash clothing before wearing again and clean shoes. If redness, itching or a burning sensation develops or persists after the area is washed, consult a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility immediately.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Give large quantities of water for dilution. Never give anything by mouth to an unconscious person. Seek medical attention.

Most important symptoms and effects

Symptoms	Can produce severe respiratory tract irritation. This will be experienced as a discomfort in the nose, throat and chest, with nasal discharge, cough, headache and difficulty with breathing. Prolonged contact may lead to burning associated with severe reddening, swelling and possible tissue destruction. Watery or discomfort of the eyes with marked excess redness and swelling. Nausea, vomiting, diarrhea, dizziness, thirst. See Section 11: Toxicological Information of this SDS for more detailed symptoms.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Eyes: Exposure to tertiary amine vapors in this product may cause minor transient edema of the corneal epithelium known as "blue haze". SKIN: Thoroughly cleansing of the entire contaminated area of the body including the scalp and nails is extremely important. INGESTION: Treat symptomatically. Inducing vomiting is contraindicated because of the irritating nature of this product. INHALATION: Tertiary amines produce severe respiratory tract irritation. This will be experienced as a discomfort in the nose, throat and chest, with nasal discharge, cough and difficulty with breathing.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use dry chemical, foam, carbon dioxide or halogenated agents or water. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. A solid stream of water directed into the hot burning liquid could cause frothing. If possible, contain fire run-off water.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Toxic fumes may be given off when material is exposed to fire.

Hazardous Combustion Products Toxic fumes may be released. Combustion may produce carbon dioxide, carbon monoxide, nitrogen oxides and silicon oxides.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Isolate and confine spill area. Remove all sources of flames, heating elements, gas engines, etc.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Cover spill with inert, non-combustible absorbent material.

Methods for Clean-Up Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Avoid skin and eye contact. Use personal protective equipment when transferring material to or from drums, totes or other containers. Safety glasses and gloves are the minimum protection. Additional precautions must be used when splash hazards are present. Consult the INTER-FOAM 5 Polyisocyanates Handling and Safety information when this "B" blend is used in conjunction with the isocyanate "A" blend. If contamination with isocyanates is suspected, do not reseal containers. Do not smoke or use naked lights, open flames, space heaters or other ignition sources near pouring, frothing or spraying operations.

Conditions for safe storage, including any incompatibilities

Storage Conditions When stored between 15° and 30°C (60° and 85°F) in sealed containers, typical shelf life is 6 months or more from the date of manufacture. Consult technical data sheet for shelf life requirements affecting performance quality. Should freezing occur, the material must be thawed thoroughly and mixed until uniform. Opened containers must be handled properly to prevent moisture pickup.

Incompatible Materials Strong oxidizing agents. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Dibutyltin dilaurate 77-58-7	STEL: 0.2 mg/m ³ Sn TWA: 0.1 mg/m ³ Sn S*	TWA: 0.1 mg/m ³ Sn (vacated) TWA: 0.1 mg/m ³ Sn (vacated) S*	IDLH: 25 mg/m ³ Sn TWA: 0.1 mg/m ³ except Cyhexatin Sn

Appropriate engineering controls

Engineering Controls

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Local exhaust ventilation is recommended when working with this product. Uses requiring heating and/or spraying may require more ventilation or personal protective equipment. An eyewash station and safety shower or other drenching facilities are recommended in the work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Chemical splash goggles or safety glasses or full face mask must be used consistent with splash hazard present. If vapor exposure causes eye discomfort, use a full face-piece respirator or supplied air hood.

Skin and Body Protection

Wear clothing, boots and gloves resistant to permeation of product. Materials may include butyl rubber, nitrile rubber, neoprene and Saranax™ coated Tyvek™.

Respiratory Protection

The specific respirator selected must be based on contamination levels of this blend found in the workplace and must not exceed the working limits of the respirator and be jointly approved by NIOSH and MSHA. Air purifying respirators equipped with full-faced organic vapor cartridge can be used only if isocyanate vapors are not present from the OAO component. In areas of high concentrations, fresh air-line respirators or self-contained breathing apparatus can be used in emergencies or other unusual situations.

General Hygiene Considerations Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Amine
Appearance	Black viscous liquid	Odor Threshold	Not determined
Color	Black		
Property	Values	Remarks • Method	
pH	Not determined		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	Not determined		
Flash Point	> 110 °C / > 230 °F		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	Not determined		
Vapor Density	Not determined		
Specific Gravity	1.03	@ 25 °C (77 °F)	
Water Solubility	Slightly soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		

Kinematic Viscosity	Not determined
Dynamic Viscosity	1,050-1,060 cps
Explosive Properties	Not determined
Oxidizing Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

This is a stable material. Avoid high temperatures, sparks, flame and extended exposure over 110°F (45°C).

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Incompatible Materials.

Incompatible Materials

Strong oxidizing agents. Acids.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Eyes may have symptoms of redness, itching, irritation, and watering from overexposure.

Skin Contact Prolonged contact may cause redness and irritation.

Inhalation May cause irritation if inhaled.

Ingestion May cause discomfort if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Triethylenediamine 280-57-9	= 1700 mg/kg (Rat)	-	-
Dibutyltin dilaurate 77-58-7	= 175 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms

Inhalation: Heating, spraying, foaming or otherwise mechanically dispersing (drumming, venting or pumping) operations of this blend may generate more vapor or aerosol concentrations of it's components. Tertiary amines can produce severe respiratory tract irritation. This will be experienced as a discomfort in the nose, throat and chest, with nasal discharge, cough, headache and difficulty with breathing.

Skin Contact: Prolonged contact may lead to burning associated with severe reddening, swelling and possible tissue destruction.

Eye Contact: Will cause irritation on contact. Symptoms from tertiary amine exposure include watering or discomfort of the eyes with marked excess redness and swelling. Severe exposure could produce chemical burns of the cornea. Tertiary amines have also been known to produce a transient blurring of vision against a general bluish haze and the appearance of halos around bright objects (referred to as "blue haze").

Ingestion: Tertiary amines can cause severe irritation and possible chemical burns of the mouth, throat, esophagus and stomach with pain or discomfort in the mouth, throat, chest and abdomen. Symptoms include; nausea, vomiting, diarrhea, dizziness, thirst, circulatory collapse and coma.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Triethylenediamine 280-57-9		1510 - 1980: 96 h Pimephales promelas mg/L LC50 flow-through		
Dibutyltin dilaurate 77-58-7		2: 48 h Oryzias latipes mg/L LC50		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

- Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.
- Contaminated Packaging** Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize 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 governmental regulations.

Chemical Name	California Hazardous Waste Status
Dibutyltin dilaurate 77-58-7	Toxic

14. TRANSPORT INFORMATION

- Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
- DOT** Not regulated
- IATA** Not regulated
- IMDG** Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
SARA 313
 Not determined

US State Regulations

U.S. State Right-to-Know Regulations

Not determined

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	1	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	1	0	Not determined

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet