

safety data sheet 1310 FLEXIBLE URETHANE FOAM - RESIN

Issue date 09/16/2024	Version 1	Pa Revised on 09/2	ıge 1/16 L6/2024
1. Identification			
Product Identifier Product Name	1310 Flexible Urethane Foam - Resin		
Other means of identification SDS #	1310 Flexible Urethane Foam - Resin		
Recommended use of the chemical and rest Recommended Use	rictions on use Expandable Foam.		
Details of the supplier of the safety data sh Supplier Address Seymour of Sycamore 917 Crosby Avenue Sycamore, IL 60178 USA	eet Seymour of Sycamore 3041 Dougall Avenue, Suite 503 Windsor, ONT N9E 1S3 CANADA		
Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr)	815-895-9101 800-435-4482 (Canada) 1-800-255-3924		
2. Hazards Identification			
Appearance Light yellow to brown viscous liquid	Physical State Viscous liquid	Odor Pungent	
Classification			
Acute toxicity - Inhalation (Vapors)	Category 4		
Skin corrosion/irritation	Category 2		
Serious eye damage/eye irritation	Category 2		
Respiratory sensitization	Category 1		
Skin sensitization	Category 1		
Specific target organ toxicity (single exposure)	Category 3		
Specific target organ toxicity (repeated exposure)	Category 2		

Signal Word Danger

Hazard Statements

Harmful if inhaled

Causes skin irritation

Causes serious eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May cause respiratory irritation

May cause damage to organs through prolonged or repeated exposure

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Precautionary Statements - Prevention	Use only outdoors or in a well-ventilated area. Wash face, hands a Wear protective gloves/protective clothing/eye protection/face pr respiratory protection. Contaminated work clothing should not be dust/fume/gas/mist/vapors/spray	and any exposed skin thoroughly after handling rotection. In case of inadequate ventilation wear allowed out of the workplace. Do not breathe
Precautionary Statements - Response	Get medical advice/attention if you feel unwell IF IN EYES: Rinse cautiously with water for several minutes. Remov Continue rinsing. Get medical attention IF ON SKIN: Wash with plenty of soap and water. Take off contami irritation or rash occurs: Get medical advice/attention IF INHALED: Remove victim to fresh air and keep at rest in a positi CENTER or doctor/physician	ve contact lenses, if present and easy to do. nated clothing and wash it before reuse. If skin ion comfortable for breathing. Call a POISON
Precautionary Statements - Storage	Store in a well-ventilated place. Keep container tightly closed Store locked up	
Precautionary Statements - Disposal	Dispose of contents/container to an approved waste disposal pla	nt
Other Hazards	Toxic to aquatic life with long lasting effects	
Unknown Acute Toxicity	15-20% of the mixture consists of ingredient(s) of unknown toxicit	ty

3. Composition/Information On Ingredients

Chemical Name	CAS No Weight-%	Weight-%
4,4'Diphenylmethane Diisocyanate (MDI)	101-68-8	30-35
Methylenediphenyl diisocyanate	26447-40-5	10-15

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. Materials containing MDI may react with the moisture of the eye forming a thick material which may be difficult to wash from the eyes. Seek medical attention.
Skin Contact	Wash off in flowing warm water or shower with soap. Remove and wash contaminated clothing and discard contaminated 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, drink 1 or 2 glasses of water or milk. Do not induce vomiting unless directed to do so by medicalpersonnel. Never give anything by mouth to an unconscious person. Seek medical attention.

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Most important symptoms and effects

Symptoms	Coughing, dryness of throat, headache, nausea, difficult breathing and a feeling of tightness in the chest. Skin contact may result in allergic skin reactions or respiratory sensitization. Watering or discomfort of the eyes. Irritation and corrosive burns to mouth, throat, and stomach. See Section 11: Toxicological Information of this SDS for more detailed symptoms.
Indication of any immediate medical attentio	n and special treatment needed
Notes to Physician	EYES: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapors have produced reversible corneal epithelial edema impairing vision.
	SKIN: This compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as a thermal burn.
	INGESTION: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of theirritating nature of this compound.
	INHALATION: Isocyanates are known pulmonary sensitizers. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate compound.
5. Fire-Fighting Measures	
Suitable Extinguishing Media	Use dry chemical, foam, carbon dioxide or halogenated agents. If water is used, use very large quantities. The reaction between water and hot isocyanate may be vigorous. 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 gases may be formed by fire. Isocyanate vapor and mist, carbon dioxide, carbon monoxide, nitrogen oxides and traces of hydrogen cyanide.
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. At temperatures greater than 400°F, polymeric MDI can polymerize and decompose, which will cause pressure build-up in closed containers. Explosive rupture is possible. Water contamination will produce carbon dioxide. Do not resealcontaminated containers as pressure build-up may rupture the containers. Downwind personnel must be evacuated.

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6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Evacuate unnecessary personnel. Ensure adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.
Methods and material for containment and c	leaning up
Methods for Containment	Prevent further leakage or spillage if safe to do so. Contain and absorb spill immediately. Absorb with appropriate inert material such as sand, clay, etc.
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.
	Clean Up: The area should then be flushed with a decontamination solution. The decontamination solution is a 5-10% mixture of sodium carbonate and 0.5% liquid detergent in water solution or a 3-8% concentrated ammonium hydroxide and 0.5% liquid detergent in water. Use 10 parts decontamination solution to 1 part spilled material. If the ammonium hydroxide solution is used, ammonia will be evolved as a vapor. Use caution to avoid exposure to high concentrations of ammonia. Allow to stand for 48 hours letting evolved carbon dioxide to escape.
7. Handling And Storage	
Precautions for safe handling Advice on Safe Handling	Use personal protection recommended in Section 8. Use only with adequate ventilation. Wash face, hands, and any exposed skin thoroughly after handling. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapors/spray.
Conditions for safe storage, including any in	compatibilities
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. Store locked up.

Incompatible Materials

None known based on information supplied.

8. Exposure Controls/Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
4,4'Diphenylmethane Diisocyanate (MDI) 101-68-8	TWA: 0.005 ppm	(vacated) Ceiling: 0.02 ppm regulated under Methylene bisphenyl isocyanate (vacated) Ceiling: 0.2 mg/m3 regulated under Methylene bisphenyl isocyanate Ceiling: 0.02 ppm - Ceiling: 0.2 mg/m3	IDLH: 75 mg/m3 Ceiling: 0.020 ppm 10 min Ceiling: 0.2 mg/m3 10 min TWA: 0.005 ppm TWA: 0.05 mg/m3
Methylenediphenyl diisocyanate 26447-40-5		Ceiling: 0.02 ppm Ceiling: 0.2 mg/m3 10-15	

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SEYMOUR



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Appropriate engineering controls Engineering Controls	Ventilation must be adequate to maintain the ambin in the SDS. MDI has a very low vapor pressure at ro- exposure levels very adequate. Uses requiring heatin controls or personal proactive equipment. Monitorin station shower or other drenching facilities is recom	ent workplace atmosphere below the exposure limit(s) outlined om temperature. General/local ventilation typically control ng and/or spraying may require more aggressive engineering ng is required to determine engineering controls. An eyewash mended in the work area.
Individual protection measures, suc Eye/Face Protection	h as personal protective equipment Chemical splash goggles or safety glasses or full fac vapor exposure causes eye discomfort, use a full fac	ce mask must be used consistent with splash hazard present. If ce-piece respirator or supplied air hood.
Skin and Body Protection	Wear clothing and gloves impervious to MDI under or rubber, neoprene and Saranax [®] coated Tyvek [®] .	conditions of use. Materials may include butyl rubber, nitrile
Respiratory Protection	A supplied air, full face mask, positive pressure or c when airborne concentrations are unknown or excer breathing apparatus can be used in emergencies or approved and maintained. Air purifying (cartridge ty isocyanates.	continuous flow respirator or a supplied air hood is required ed threshold values. A positive pressure self contained r other unusual situations. All equipment must be NIOSH/MSHA ype) respirators are not approved for protection against
General Hygiene Considerations	Avoid contact with skin, eyes and clothing. After har smoking. If contact occurs, remove contaminated c SDS. Launder contaminated clothing before reuse.	ndling this product, wash hands before eating, drinking, or lothing. If needed, take first aid action shown on section 4 of this

9. Physical And Chemical Properties

Information on basic physical	Property	Values	Remarks • Method
and chemical properties	рН	Not determined	
	Melting Point/Freezing Point	Not determined	
Physical State : Viscous liquid	Boiling Point/Boiling Range	> 232.22 °C / > 450 °F	
Appearance: Light yellow to brown viscous liquid	Flash Point	> 127.77 / > 262 °F	
Color: Light yellow to brown	Evaporation Rate	Not determined	
Ddor: Pungent	Flammability (Solid, Gas)	Not determined	
Odor Threshold: Not determined	Upper Flammability Limits	Not determined	
	Lower Flammability Limit	Not determined	
	Vapor Pressure	Not determined	
	Vapor Density	Not determined	
	Specific Gravity	1.11-1.13	@ 25 °C (77 °F)
	Water Solubility	Not determined	
	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	145-155 cps	
	Explosive Properties	Not determined	
	Oxidizing Properties	Not determined	

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10. Stability And Reactivity

Reactivity

Not reactive under normal conditions; Product will react with water.

Chemical Stability

Stable under recommended storage conditions. Polyisocyanates are highly reactive chemicals.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid Keep out of reach of children.

Incompatible Materials None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. Toxicological Information

Information on likely routes of exposure

Product Information	
Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation. May cause an allergic skin reaction.
Inhalation	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation
Ingestion	Can burn mouth, throat, and stomach.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
4,4'Diphenylmethane Diisocyanate (MDI) 101-68-8	= 9200 mg/kg (Rat)		
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate 6846-50-0	> 3200 mg/kg (Rat)		
Methylenediphenyl diisocyanate 26447-40-5	> 7400 mg/kg (Rat)	> 6200 mg/kg (Rabbit)	= 0.369 mg/L (Rat) 4 h
Diphenylmethane, Diissocynate, isomers, and homologues 9016-87-9	= 49 g/kg (Rat)	> 9400 mg/kg (Rabbit)	= 490 mg/m3 (Rat) 4 h

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Information on physical, chemical and toxicological effects

Symptoms

INHALATION: At room temperature, MDI vapors are minimal due to low vapor pressure. However, heating, spraying, foaming or otherwise mechanically dispersing (drumming, venting or pumping) operations may generate vaporor aerosol concentrations sufficient to cause irritation or other adverse effects. Excessive exposure may cause irritation of the eyes, upper respiratory tract and lungs. Severe overexposure may lead to pulmonary edema. May cause respiratorysensitization with asthma-like symptoms in susceptible individuals. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Symptoms may include coughing, dryness of throat, headache, nausea, difficult breathing and a feeling of tightness in the chest. Effects may be delayed. Impaired lung function (decreased ventilator capacity) has been associated with overexposure to isocyanates. Persons with known respiratory or allergy problems must not be exposed to this product.

Skin Contact: No irritation is likely to develop following short contact periods with skin. Prolonged or repeated exposure can cause skin irritation, reddening, dermatitis, and in some individuals, sensitization. Skin contact may result in allergic skin reactions or respiratory sensitization, but it is not expected to result in absorption amounts sufficient to cause other adverse effects. May stain skin.

Eye Contact: As a liquid or dust, may cause irritation, inflammation and/or damage to sensitive eye tissue. Symptoms include watering or discomfort of the eyes. Corneal injury is unlikely.

Single dose oral toxicity is considered to be extremely low. Can result in irritation and corrosive action in the mouth, stomach tissue and digestive tract.

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

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
4,4'Diphenylmethane Diisocyanate (MDI) 101-68-8		Group 3		
Methylenediphenyl diisocyanate 26447-40-5		Group 3		

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Chronic toxicity	As a result of repeated overexposures or a single large dose, certain individuals develop isocyanate sensitization (chemical asthma) or tissue injury in the upper respiratory tract. Animal tests indicate skin contact alone may also lead to allergic respiratory reaction. These effects may be permanent. Any person developing asthmatic reaction or other sensitization should be removed from further exposure.
Numerical measures of toxicity Not determined	
Unknown Acute Toxicity	15-20% of the mixture consists of ingredient(s) of unknown toxicity.

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12. Ecological Information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2,2,4-Trimethyl-1,3- pentanediol diisobutyrate 6846-50-0		1.55: 96 h Pimephales promelas mg/L LC50 static		1.46: 48 h Daphnia magna mg/L EC50
Methylenediphenyl diisocyanate 26447-40-5	3230: 96 h Skeletonema costatum mg/L EC50			1000: 24 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Methylenediphenyl diisocyanate	15
26447-40-5	4.0

Other Adverse Effects

Not determined.

13. Disposal Considerations

Wasta Treatment Methods

waste meatment methods	
Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Drums/containers must be thoroughly drained to process or storage vessels before removal to an appropriate area for subsequent decontamination. Drums/ containers must be decontaminated in properly ventilated areas by personnel protected from the inhalation of isocyanate vapors. Spray or pour 1 to 5 gallons of decontaminating solution into a drum, making sure the walls are well rinsed. Let the drum/container soak unsealed for 48 hours. Pour out the decontaminating solution and triple rinse the empty container. Puncture or otherwise destroy the rinsed containerbefore disposal. DO NOT heat or cut empty containers with electric or gas torch.
14. Transport Information	
Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Not regulated
ΙΑΤΑ	Not regulated
IMDG Marine Pollutant	This material may meet the definition of a marine pollutant

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15. Regulatory Information

International Inventories

Not determined

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

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
4,4'Diphenylmethane Diisocyanate (MDI) - 101-68-8	5000 lb		RQ 5000 lb final RQ $$ / RQ 2270 kg final RQ

SARA 313	Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
4	4,4'Diphenylmethane Diisocyanate (MDI) - 101-68-8	101-68-8	30-35	1.0
	Methylenediphenyl diisocyanate - 26447-40-5	26447-40-5	10-15	1.0
DiphenyIn	nethane, Diissocynate, isomers, and homologues - 9016-87-9	9016-87-9	5-10	1.0

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
4,4'Diphenylmethane Diisocyanate (MDI) - 101-68-8	Х		Х
Methylenediphenyl diisocyanate - 26447-40-5	Х	Х	
Diphenylmethane, Diissocynate, isomers, and homologues - 9016-87-9	Х		

16. Other Information

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	3	1	1	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	1	1	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.

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1. Identification		· · · · · · · · · · · · · · · · · · ·
Product Identifier Product Name	1310 Flexible Urethane Foam - Hardener	
Other means of identification SDS #	1310 Flexible Urethane Foam - Hardener	
Recommended use of the chemical and re Recommended Use	estrictions on use Expandable Foam.	
Details of the supplier of the safety data Supplier Address Seymour of Sycamore 917 Crosby Avenue Sycamore, IL 60178 USA	sheet Seymour of Sycamore 3041 Dougall Avenue, Suite 503 Windsor, ONT N9E 1S3 CANADA	
Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr)	815-895-9101 800-435-4482 (Canada) 1-800-255-3924	
2. Hazards Identification		
Appearance: Black viscous liquid	Physical State: Liquid	Odor: Amine
Classification	This chemical does not meet the hazardous criteria set f (29 CFR 1910.1200). However, this Safety Data Sheet (S	orth by the 2012 OSHA Hazard Communication Standard 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

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

of this product.

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.

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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 t that the eye is being irrigated. Consult a physician.	he eyelids are separated and
Skin Contact	Remove all contaminated clothing and shoes. Wash skin with large quantities of w before wearing again and clean shoes. If redness, itching or a burning sensation d area is washed, consult a physician.	ater and soap. Wash clothing evelops or persists after the
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is diffic administered by qualified personnel. Call a physician or transport to a medical fac	ult, oxygen should be ility immediately.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personne for dilution. Never give anything by mouth to an unconscious person. Seek medica	el. Give large quantities of water l attention.
Most important symptoms and effects		
Symptoms	Can produce severe respiratory tract irritation. This will be experienced as a discort and chest, with nasal discharge, cough, headache and difficulty with breathing. Pr burning associated with severe reddening, swelling and possible tissue destruction eyes with marked excess redness and swelling. Nausea, vomiting, diarrhea, dizzine Toxicological Information of this SDS for more detailed symptoms.	mfort in the nose, throat olonged contact may lead to n. Watering or discomfort of the ess, thirst. See Section 11:
Indication of any immediate medical attention	on and special treatment needed	
Notes to Physician	Eyes: Exposure to tertiary amine vapors in this product may cause minor transient epithelium known as "blue haze". SKIN: Thoroughly cleansing of the entire contam including the scalp and nails is extremely important.	edema of the corneal inated area of the body
	INGESTION: Treat symptomatically. Inducing vomiting is contraindicated because of this product. INHALATION: Tertiary amines produce severe respiratory tract irritation discomfort in the nose, throat and chest, with nasal discharge, cough and difficult	of the irritating nature of on. This will be experienced as a y with breathing.

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.

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Page 12/16 Issue date 09/16/2024 Version 1 Revised on 09/16/2024 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/m3 Sn TWA: 0.1 mg/m3 Sn S*	TWA: 0.1 mg/m3 Sn (vacated) TWA: 0.1 mg/m3 Sn (vacated) S*	IDLH: 25 mg/m3 Sn TWA: 0.1 mg/m3 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.

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Individual protection measures, such as pers	sonal protective equipment	
Eye/Face Protection	Chemical splash goggles or safety glasses or full face mask must be used consi vapor exposure causes eye discomfort, use a full face-piece respirator or suppli	istent with splash hazard present. If ied air hood.
Skin and Body Protection	Wear clothing, boots and gloves resistant to permeation of product. Materials r rubber, neoprene and Saranax [°] coated Tyvek [°] .	nay include butyl rubber, nitrile
Respiratory Protection	The specific respirator selected must be based on contamination levels of this I must not exceed the working limits of the respirator and be jointly approved by purifying respirators equipped with full-faced organic vapor cartridge can be us not present from the ÒAÓ component. In areas of high concentrations, fresh air breathing apparatus can be used in emergencies or other unusual situations.	blend found in the workplace and NIOSH and MSHA. Air eed only if isocyanate vapors are -line respirators or self-contained
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	Property	Values	Remarks • Method
Appearance: Black viscous liquid	Н	Not determined	
Color: Black	Melting Point/Freezing Point	Not determined	
Odor: Amine	Boiling Point/Boiling Range	Not determined	
Odor Threshold: 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	

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10. Stability And Reactivity				
Reactivity	Not reactive under normal conditions.			
Chemical Stability	This	is a stable material. Avoid high tem	peratures, sparks, flame and extend	ded exposure over 110°F (45°C).
Possibility of Hazardous Reactions	None	e under normal processing.		
Hazardous Polymerization	Haza	rdous polymerization does not occ	Jr.	
Conditions to Avoid	Inco	mpatible Materials.		
Incompatible Materials	Stror	ng oxidizing agents. Acids.		
Hazardous Decomposition Products	None	e known based on information supp	lied.	
11. Toxicological Information				
Information on likely routes of exposure Product Information				
Eye Contact	Eyes	may have symptoms of redness, itc	hing, irritation, and watering from o	verexposure.
Skin Contact	Prolo	onged contact may cause redness a	nd irritation.	
Inhalation	Мау	cause irritation if inhaled.		
Ingestion	Мау	cause discomfort if swallowed.		
Component Information			Dormal LDE0	Inholation LCEO
Triethylenediamine		- 1700 mg/kg (Pat)	Dermar LD30	
280-57-9 Dibut dite dilevente		- 1700 liig/ kg (kat)		
77-58-7		= 175 mg/kg (Rat)		
Information on physical, chemical and toxico	ologic	al 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.			
	tissu	e 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 ch	ronic	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 (Contd. on page 1		(Contd. on page 15)	



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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	Тохіс
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



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15. Regulatory Information		
International Inventories		
TSCA	Listed	
Legend: • TSCA - United States Toxic Substances Control • DSL/NDSL - Canadian Domestic Substances L • EINECS/ELINCS - European Inventory of Existi • ENCS - Japan Existing and New Chemical Subs • IECSC - China Inventory of Existing Chemical S • KECL - Korean Existing and Evaluated Chemical • PICCS - Philippines Inventory of Chemicals and	Act Section 8(b) Inventory ist/Non-Domestic Substances List ng Chemical Substances/European List of Notified Chemical Substances tances ubstances Il Substances d Chemical Substances	
US Federal Regulations		
CERCLA		
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

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	2	1	O	Not determined
HMIS	Health Hazards	Flammability 1	Physical Hazards	Personal Protection 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