

# SAFETY DATA SHEET



Date Issued : 3/20/2014  
SDS No : 135439  
Date Revised : 7/24/2015  
Revision No : 3

## Liquid Foam, A-Side

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Liquid Foam, A-Side  
**GENERAL USE:** Isocyanate side of 2 part Polyurethane foam products.  
**PRODUCT CODE:** 135439  
**CHEMICAL FAMILY:** Aromatic Isocyanates

#### MANUFACTURER

Fiberglass Coatings Inc.  
4301A 34th Street North  
St. Petersburg, FL 33714  
**Customer Service:** (800) 272-7890  
**E-Mail:** www.fgci.com  
**Emergency Contact:** Chem-Tel  
**Emergency Phone:** (800) 255-3924

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Acute Toxicity (Inhalation), Category 4  
Eye Irritation, Category 2  
Skin Irritation, Category 2  
Respiratory Sensitization, Category 1  
Target Organ Toxicity (Repeated exposure), Category 2  
Carcinogenicity, Category 2  
Skin Sensitization, Category 1  
Target Organ Toxicity (Single exposure), Category 3

#### GHS LABEL



Exclamation  
mark



Health  
hazard

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H332: Harmful if inhaled.  
H319: Causes serious eye irritation.  
H315: Causes skin irritation.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H351: Suspected of causing cancer.

## PRECAUTIONARY STATEMENT(S)

### Prevention:

P271: Use only outdoors or in a well-ventilated area.

P260: Do not breathe fumes.

P284: Wear respiratory protection.

P280: Wear protective gloves, protective clothing, eye protection and face protection.

P264: Wash skin thoroughly after handling.

### Response:

P312: Call a POISON CENTER or physician if you feel unwell.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P332+P313: If skin irritation occurs: Get medical attention.

P362: Take off contaminated clothing and wash before reuse.

P321: Specific treatment (see Section 4: First Aid).

### Disposal:

P501: Dispose of container and its contents in accordance with all Federal, State, and local regulations.

## EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Liquid, Brown, faint aromatic odor.

**IMMEDIATE CONCERNS:** CONTAINS DIPHENYLMETHANE DIISOCYANATE (MDI) CAS No. 101-68-8.

INHALATION OF MDI MISTS OR VAPORS MAY CAUSE RESPIRATORY IRRITATION, BREATHLESSNESS, CHEST DISCOMFORT AND REDUCED PULMONARY FUNCTION. OVEREXPOSURE WELL ABOVE THE PEL MAY RESULT IN BRONCHITIS, BRONCHIAL SPASMS AND PULMONARY EDEMA. LONG-TERM EXPOSURE TO ISOCYANATES HAS BEEN HAS BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING REDUCED LUNG FUNCTION WHICH MAY BE PERMANENT. ACUTE OR CHRONIC OVEREXPOSURE TO ISOCYANATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. AVOID CONTACT WITH SKIN AND EYES. SKIN OR EYE CONTACT MAY CAUSE IRRITATION. SKIN CONTACT WITH MDI MAY CAUSE RESPIRATORY SENSITIZATION.

## POTENTIAL HEALTH EFFECTS

**EYES:** Causes eye irritation.

**SKIN:** Irritating to the skin.

**INGESTION:** Harmful if swallowed. May cause nausea and vomiting.

**INHALATION:** Inhalation can cause dizziness, drowsiness, headache, nausea, and irritation of nose, throat and respiratory tract. Can also cause respiratory sensitization.

**CARCINOGENICITY:** This mixture is not listed as a carcinogen, however, some of the components may be suspected to cause cancer in humans.

**MEDICAL CONDITIONS AGGRAVATED:** The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Contact may aggravate pulmonary disorders.

**ROUTES OF ENTRY:** Inhalation, ingestion, skin and eye contact.

**TARGET ORGAN STATEMENT:** Skin, Lungs.

**IRRITANCY:** Irritating to eyes, respiratory system and skin.

**SENSITIZATION:** The substance may cause sensitization of the respiratory tract. Sensitization after skin contact possible.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Diphenylmethane diisocyanate (MDI 4,4')	38	101-68-8
Diphenylmethane diisocyanate (MDI 2,4)	< 10	26447-40-5
Higher polymers of similar structure	< 55	9016-87-9

**COMMENTS:** The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eye with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for further treatment.

**SKIN:** Remove contaminated clothing. Flush with large amounts for at least 15 minutes followed by washing with soap if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

**INGESTION:** Give large amounts of water. Do not induce vomiting, seek immediate medical attention.

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**NOTES TO PHYSICIAN:** Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

**ANTIDOTES:** Specific antidotes or neutralizers to isocyanates do not exist.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Not categorized as Flammable by GHS standards. However, can still be ignited by external sources above flash point.

**EXTINGUISHING MEDIA:** Use dry chemical, CO<sub>2</sub>, water spray/fog (not jet), or foam

**FIRE FIGHTING PROCEDURES:** Fire Fighters should wear appropriate protective equipment and self contained apparatus (SCBA) with full face piece operated in positive pressure mode. Cool any adjacent drums to prevent vapor build up.

**FIRE FIGHTING EQUIPMENT:** Full Bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus (SCBA).

**FIRE EXPLOSION:** At temperatures above 400°F, MDI can polymerize/decompose causing pressure build-up in closed containers and possibly rupture. Avoid water contamination in closed containers which may cause rupture (CO<sub>2</sub> is evolved).

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon and nitrous gases, fumes/smoke, isocyanate, vapor.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb isocyanate with suitable absorbent material (see § 40 CFR, sections 260, 264 and 265 for further information). Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90 % water, 8 % concentrated ammonia, 2 % detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.

**LARGE SPILL:** If temporary control of isocyanate vapor is required, a blanket of protein foam or other suitable foam (available

from most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal. For residues: The following measures should be taken for final cleanup: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes.

## ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Do not allow spill to enter drains, sewers or waterways.

**GENERAL PROCEDURES:** Contain spill. Absorb with sawdust, etc., and shovel into open top drum. Decontaminate absorbent and spill area with 2% detergent/water solution. Let waste stand for 1 to 2 days, then dispose of waste in a licensed facility. Respiratory protection/ventilation is recommended during clean-up.

**COMMENTS:** Spill area can be decontaminated with the following recommended decontamination solution:

Decontamination Solution #1: 8-10% sodium carbonate and 2% liquid soap in water

Decontamination Solution #2: Liquid/yellow soap (potassium soap with ~15% anionic dense): 20 mL ; Water: 700 mL; Polyethylenglycol (PEG 400): 350 mL

## 7. HANDLING AND STORAGE

**HANDLING:** Provide sufficient air exchange and/or exhaust in work rooms. Occupational exposure limits should not be exceeded (section 8). Avoid inhalation of vapors and contact with skin or eyes. Keep away from food, drink and tobacco. Wash hands after handling.

**STORAGE:** Store in a cool, dry, well-ventilated area, away from incompatible materials. Keep container closed when not being used.

**STORAGE TEMPERATURE:** (32°F) Minimum to (110°F) Maximum

**Notes:** Protect against moisture.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
			EXPOSURE LIMITS	
			OSHA PEL	
Chemical Name			ppm	mg/m <sup>3</sup>
Diphenylmethane diisocyanate (MDI 4,4')	<b>TWA</b>		0.02 <sup>[1]</sup>	0.2 <sup>[1]</sup>
Higher polymers of similar structure	<b>TWA</b>		0.02	0.2
<b>Footnotes:</b>				
1. CLV (ceiling limit value)				

**ENGINEERING CONTROLS:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below any exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Chemical splash goggles and/or face shield. Always use proper eye protection around the work area.

**SKIN:** Chemical resistant protective gloves should be worn to prevent all skin contact. Suitable materials may include, chloroprene rubber (Neoprene), nitrile rubber (Buna N), chlorinated polyethylene, polyvinylchloride (Pylox), butyl rubber, depending upon conditions of use.

**RESPIRATORY:** When atmospheric levels may exceed the occupational exposure limit (PEL or TLV), NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and change out schedules are in place. For emergency or non-routine, high exposure situations, including

confined space entry, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

**PROTECTIVE CLOTHING:** Chemical resistant protective suit, butyl rubber gloves, chemical resistant safety boots.

**WORK HYGIENIC PRACTICES:** Wear protective clothing as necessary to prevent contact. Eye wash fountains and safety showers must be easily accessible. Observe the appropriate PEL or TLV value. Wash soiled clothing immediately. Contaminated equipment or clothing should be cleaned after each use or disposed of.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Earthy odor.

**ODOR THRESHOLD:** No data available.

**COLOR:** Dark Amber

**PHYSICAL STATE COMMENTS:** Liquid.

**pH:** No data available.

**PERCENT VOLATILE:** No data available.

**FLASH POINT AND METHOD:** > 250°C (482°F)

**FLAMMABLE LIMITS:** No data available.

**AUTOIGNITION TEMPERATURE:** No data available.

**VAPOR PRESSURE:** 0.00016 mmHg

**VAPOR DENSITY:** No data available.

**BOILING POINT:** > 300°C (572°F)

**MELTING POINT:** No data available.

**POUR POINT:** No data available.

**SOLUBILITY IN WATER:** Insoluble, reacts with water

**EVAPORATION RATE:** No data available.

**DENSITY:** No data available.

**SPECIFIC GRAVITY:** 1.24 (Water = 1)

**VISCOSITY:** No data available.

**(VOC):** No data available.

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** Yes

**STABILITY:** Stable under recommended storage conditions.

**POLYMERIZATION:** Will only occur after contact with strong Acids, Bases, Alcohols and Amines

**CONDITIONS TO AVOID:** Temperatures over 400F, and contact with Incompatible substances

**POSSIBILITY OF HAZARDOUS REACTIONS:** Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols. Reacts with acids. Reacts with alkalies. Reacts with amines. Risk of exothermic reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products: carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.

**INCOMPATIBLE MATERIALS:** Water, alcohols, strong bases, Substances/products that react with isocyanates.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Diphenylmethane diisocyanate (MDI 4,4')	> 2000 mg / kg (Rat)	> 9400 mg / kg (dermal Rabbit)	2.24 mg/L (aerosol)

**EYE EFFECTS:** Eye irritant

**SKIN EFFECTS:** Skin Irritant, Sensitizer.

**CHRONIC:** Chronic toxicity observed in rats: 2 years, inhalation; NOAEL: 0.2mg/m<sup>3</sup>, (rat, Male/Female, 6hrs/day, 5 days/week)

### CARCINOGENICITY

**Notes:** Not considered carcinogenic by OSHA, NTP, or IARC.

**SENSITIZATION:** Skin sensitization possible following short or long term exposure.

## 12. ECOLOGICAL INFORMATION

**BIOACCUMULATION/ACCUMULATION:** The product is unstable in water. Poorly biodegradable. Bioconcentration factor 200 (28 days, Carp).

**AQUATIC TOXICITY (ACUTE):** Information for: Diphenylmethane-4,4'-diisocyanate (MDI).

**96-HOUR LC<sub>50</sub>:** > 1000 mg/L (Brachydanio rerio)

**48-HOUR EC<sub>50</sub>:** > 1000 mg/L (Daphnia Magna)

**96-HOUR EC<sub>50</sub>:** 1640 mg/L (Green Algae)

**Notes:** The product may hydrolyse. The test result maybe partially due to degradation products. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Disposal should be in accordance with all Federal, State, and local regulations. Empty containers may still be considered dangerous due to residual vapors/liquid/dust.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not Regulated by DOT

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 5000 Pounds

**OTHER SHIPPING INFORMATION:** Not classified as a dangerous good under transport regulations. This product is regulated if the amount in a single receptacle exceeds the Reportable Quantity (RQ).

### ROAD AND RAIL (ADR/RID)

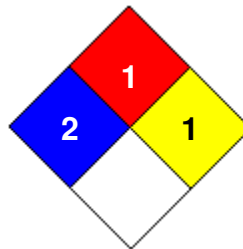
**PROPER SHIPPING NAME:** Not Regulated

**AIR (ICAO/IATA)****SHIPPING NAME:** Not Regulated**VESSEL (IMO/IMDG)****SHIPPING NAME:** Not Regulated**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** Immediate (acute) Health Hazard, Chronic (Delayed) Health Hazard.**FIRE:** No **PRESSURE GENERATING:** Yes **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC:** Yes**313 REPORTABLE INGREDIENTS:** Diphenylmethane-4,4'-diisocyanate (MDI) CAS# 101-68-8.

Polymeric Diphenylmethane diisocyanate (P-MDI) CAS# 9016-87-9.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA RQ:** 5000 pounds**REPORTABLE SPILL QUANTITY:** 13,157 lbs**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA REGULATORY:** Listed.**OSHA HAZARD COMM. RULE:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200**16. OTHER INFORMATION****PREPARED BY:** BC**REVISION SUMMARY:** This MSDS replaces the 6/26/2015 MSDS. Revised: **Section 7:** HANDLING. **Section 9:** COLOR, ODOR, VAPOR PRESSURE. **Section 11:** CHRONIC, SENSITIZATION.**HMIS RATING**

<b>HEALTH</b>	*	<b>2</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>1</b>
<b>PERSONAL PROTECTION</b>		

**NFPA CODES****HMIS RATINGS NOTES:** The customer is responsible for determining the PPE code for this material.**MANUFACTURER DISCLAIMER:** This information is compiled from sources believed reliable as of the date of issue, it is provided in good faith and correct to the best of our knowledge. No warranty, guarantee, or representation is made as to the sufficiency of the information for the safe use of the product nor to relieve the end user of their own Federal, State, and local regulatory compliance requirements.

# SAFETY DATA SHEET



Date Issued : 3/25/2014  
SDS No : 135439B

## Liquid Foam, B-Side, 8 lb Density

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Liquid Foam, B-Side, 8 lb Density  
**GENERAL USE:** Resin side of 2 part Polyurethane foam products.  
**PRODUCT CODE:** 135439B

#### MANUFACTURER

Fiberglass Coatings Inc.  
4301A 34th Street North  
St. Petersburg, FL 33714  
**Customer Service:** (800) 272-7890  
**E-Mail:** [www.fgci.com](http://www.fgci.com)  
**Emergency Contact:** Chem-Tel  
**Emergency Phone:** (800) 255-3924

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Eye Irritation, Category 2  
Skin Irritation, Category 2  
Target Organ Toxicity (Single exposure), Category 3

#### GHS LABEL



Exclamation  
mark

**SIGNAL WORD:** WARNING

#### HAZARD STATEMENTS

H320: Causes eye irritation.  
H316: Causes mild skin irritation.  
H335: May cause respiratory irritation.

#### PRECAUTIONARY STATEMENT(S)

##### Prevention:

P261: Avoid breathing fumes, dust, vapors, gases, or spray.  
P271: Use only outdoors or in a well-ventilated area.  
P264: Wash skin thoroughly after handling.

##### Response:



P312: Call a POISON CENTER or physician if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

P332+P313: If skin irritation occurs: Get medical attention.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

#### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

#### Disposal:

P501: Dispose of container and its contents in accordance with all Federal, State, and local regulations.

### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Amber liquid, ethereal odor

**IMMEDIATE CONCERNS:** May cause skin or eye irritation upon contact. Avoid breathing vapors. The dense vapors can displace and reduce breathing air in confined or unventilated spaces causing asphyxiation. Overexposure may cause tremors, confusion, irritation, and may result in cardiac sensitization.

### POTENTIAL HEALTH EFFECTS

**EYES:** Contact may cause eye irritation.

**SKIN:** Contact may cause skin irritation.

**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.

**CARCINOGENICITY:** Not classified as a carcinogen by the International Agency for Research of Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

**ROUTES OF ENTRY:** Inhalation, ingestion, skin and eye contact.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Tertiary Amine Catalyts	< 1	N/A

**COMMENTS:** The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists seek immediate medical attention.

**SKIN:** Wash with soap and water. Remove and dispose of any contaminated clothing or shoes. Get medical attention if irritation develops or persists.

**INGESTION:** Induce vomiting; get medical attention.

**INHALATION:** Move to fresh air if symptoms develop. If breathing is difficult, give oxygen and call physician.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Pain, redness or irritation of the eyes.

**SKIN:** Skin irritation or redness.

**INHALATION:** Inhalation of vapors may cause breathlessness coughing, tremors, or confusion, . May also lead to allergic or cardiac sensitization.

**NOTES TO PHYSICIAN:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Not categorized as Flammable by GHS standards. However, can still be ignited by external sources above flash point.

**EXTINGUISHING MEDIA:** Use dry chemical, CO<sub>2</sub>, water spray/fog (not jet), or foam

**FIRE FIGHTING PROCEDURES:** Evacuate the area immediately. Only trained personnel should fight any industrial or chemical fire.

**FIRE FIGHTING EQUIPMENT:** Full Bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus (SCBA).

**HAZARDOUS DECOMPOSITION PRODUCTS:** May form when burned: Carbon oxides, Nitrous oxides, aliphatic fragments, halogens, halogen acids and possibly carbonyl halides.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Stop the spill if possible. Dike the area with absorbent material. Vermiculite, sawdust or sand may be used to absorb as much of the spill as possible. Shovel spilled material into an overpak drum or open 55-gallon drum.

**LARGE SPILL:** Use a shovel to put the material in to a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Do not allow spill to enter drains, sewers or waterways.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Avoid breathing and contact with material. Only use in well ventilated areas. Wash thoroughly after handling. Use the information in this data sheet to assess risks in local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

**HANDLING:** Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**STORAGE:** Store in a cool, dry, well-ventilated area, away from incompatible materials. Keep container closed when not being used.

**STORAGE TEMPERATURE:** Store out of direct sunlight

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)		
Chemical Name	EXPOSURE LIMITS	
	OSHA PEL	
	ppm	mg/m <sup>3</sup>
Tertiary Amine Catalyts	TWA	0.5

**ENGINEERING CONTROLS:** Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (PEL/TLV). Any installed emergency eye wash station or safety showers should be located near the work area.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Chemical splash goggles. Always use proper eye protection around the work area.

**SKIN:** Avoid skin contact. Use heavy duty gloves made of Viton or heavy nitrile rubber. Wash hands with plenty of mild soap and water. Wear long-sleeved resistant clothing, remove and discard contaminated clothing immediately.

**RESPIRATORY:** Organic vapor respirator with a particulate prefilter may be worn if vapors are detected or irritating. Determine if respirators are required to protect against exposure to vapors in handling polyol resin blends under the circumstances unique to your workplace. If so, be sure to wear them when instructed. The personal protective equipment specified above is for routine handling only. Additional equipment may be required for emergency response operations.

**PROTECTIVE CLOTHING:** Clothing should be applicable for the job at hand to protect the skin from repeated exposure to the material.

**WORK HYGIENIC PRACTICES:** Never eat or drink in areas where the chemical is being used. Wash hands after handling to limit exposure.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid.

**ODOR:** Ammonia like odor.

**ODOR THRESHOLD:** No data available.

**APPEARANCE:** Amber Liquid

**pH:** No data available.

**PERCENT VOLATILE:** No data available.

**FLASH POINT AND METHOD:** > 90°C (200°F) Pensky Martin Closed Cup ASTM D 93

**FLAMMABLE LIMITS:** No data available.

**AUTOIGNITION TEMPERATURE:** No data available.

**VAPOR PRESSURE:** Low.

**VAPOR DENSITY:** No data available.

**BOILING POINT:** > 93°C (200°F)

**MELTING POINT:** No data available.

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** No data available.

**SPECIFIC GRAVITY:** 1.06 (Water = 1)

**VISCOSITY:** No data available.

**(VOC):** No data available.

**10. STABILITY AND REACTIVITY**

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** This product is stable under normal conditions of storage and use.

**POLYMERIZATION:** Will occur after contact with isocyanates.

**CONDITIONS TO AVOID:** Temperatures over 85F, and contact with incompatible substances.

**INCOMPATIBLE MATERIALS:** Isocyanates and other chemicals that react with hydroxyl groups.

#### 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Eye irritant

**SKIN EFFECTS:** Skin Irritant, Sensitizer.

#### CARCINOGENICITY

**Notes:** Not considered carcinogenic by OSHA, NTP, or IARC.

#### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Environmental studies have not been performed for this product.

**COMMENTS:** While the material has no known significant risks or critical hazards, good stewardship of the environment requires care to not release this material into the soil or water.

#### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Disposal should be in accordance with all Federal, State, and local regulations. Empty containers may still be considered dangerous due to residual vapors/liquid/dust.

#### 14. TRANSPORT INFORMATION

##### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not Regulated by DOT

##### AIR (ICAO/IATA)

**SHIPPING NAME:** Not Regulated

##### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Not Regulated

**COMMENTS:** Not regulated when shipped domestically by land, water or air.

#### 15. REGULATORY INFORMATION

##### UNITED STATES

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Immediate (Acute) health hazard.

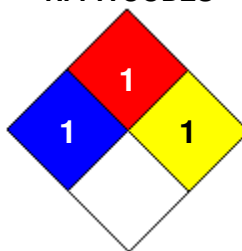
**FIRE:** No **PRESSURE GENERATING:** Yes **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC:** No

#### 16. OTHER INFORMATION

**PREPARED BY:** BC

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>1</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>1</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	

**NFPA CODES**

**HMIS RATINGS NOTES:** The customer is responsible for determining the PPE code for this material.

**MANUFACTURER DISCLAIMER:** This information is compiled from sources believed reliable as of the date of issue, it is provided in good faith and correct to the best of our knowledge. No warranty, guarantee, or representation is made as to the sufficiency of the information for the safe use of the product nor to relieve the end user of their own Federal, State, and local regulatory compliance requirements.