



# SAFETY DATA SHEET

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## Section 1. Identification

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<b>Product Name:</b>	<b>Hurricane CAT 4 Part A</b>
<b>Chemical Name:</b>	Mixture
<b>Synonyms:</b>	<b>2-Part Urethane Wet Look Sealer Advanced Sealer Performance</b>
<b>Supplier's Details:</b>	Trident 3925 Stern Avenue St. Charles, IL 60174 (866) 951-4293 <a href="http://www.tridentprotects.com">www.tridentprotects.com</a>
<b>Emergency Telephone Number:</b> <b>Chemtrec (outside USA):</b>	CHEMTREC (800) 424-9300 (United States Only) (703) 527-3887

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## Section 2. Hazards Identification

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### Hazard Classification:

#### OSHA/HCS Status:

This material is not considered hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

#### Physical Hazards:

NA

#### Health Hazards:

SKIN IRRITATION - Category 3

INHALATION - Category 5

### GHS Label Elements:

Hazard Pictograms: None

Signal Word: Warning

#### Hazard Statements:

H316 Causes mild skin irritation.  
H333 May be harmful if inhaled.

#### Precautionary Statements:

##### Prevention:

Keep out of reach of children. Use in a well ventilated area. Wear protective gloves, clothing, face and eye protection. Wash thoroughly after handling.

##### Response:

**If swallowed:** Call a POISON CENTER or physician if you feel unwell.

**If on skin:** Wash with plenty of soap and water. Get medical attention if irritation occurs. Take off contaminated clothing and wash before reuse.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation persists.

**If inhaled:** Call a POSION CENTER or physician if you feel unwell.

**In case of fire:** Use water, water fog, dry chemical CO<sub>2</sub> or alcohol resistant foam to extinguish.

##### Storage:

Keep in a cool place. Do not allow to freeze.

##### Disposal:

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

##### Hazards not otherwise classified:

None known.

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### Section 3. Composition/Information on Ingredients

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#### Substance/Mixtures

Mixture

#### Chemical Name:

NA

#### Other Means of Identification:

Hurricane CAT 4 Part A  
2-Part Urethane Wet Look Sealer

#### CAS number/other identifiers:

##### CAS Number:

Mixture

Chemical Name	Concentration	Additional Identification
2-butoxyethanol	<2.0%	CAS 111-76-2
Proprietary Anti-Fungal Blend	<0.05%	Mixture

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## Section 4. First Aid Measures

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### Description of necessary first aid measures:

#### Inhalation:

Move to fresh air. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

#### Eye Contact:

Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if easy to do and present. Get medical attention if irritation persists.

#### Skin Contact:

Wash thoroughly after handling. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

#### Ingestion:

Call a physician or poison control center if you feel unwell. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

### Most Important Symptoms/Effects (both acute and delayed):

May irritate and cause redness and pain.

### Indication of Immediate Medical Attention and Special Treatment Needed (if necessary):

**Hazards:** Glycol Ethers: Some glycol ethers cause adverse effects in animals that include the reproductive system, offspring, blood, kidney and liver.

**Treatment:** Treat symptomatically.

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## Section 5. Firefighting Measures

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**General Fire Hazards:** Not applicable.

### Extinguishing Media:

**Suitable Extinguishing Media:** Water. Water fog. Dry chemical. Carbon Dioxide. Alcohol resistant foam.

**Unsuitable Extinguishing Media:** None known.

**Hazardous Thermal Decomposition:** None known.

**Special hazards arising from the substance or mixture:**

None known.

**Advice for Firefighters:**

**Special firefighting procedures:**

Use water spray to keep fire-exposed containers cool.

**Special Protective Equipment for Firefighters:**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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## **Section 6. Accidental Release Measures**

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**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear appropriate personal protective equipment.

**Environmental Precautions:**

Avoid release to the environment.

**Methods and Materials for Containment and Cleaning Up:**

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Large spillages: Flush spill area with water spray. Prevent runoff from entering drains, sewers or streams. Dike for later disposal.

**Notification Procedures:**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

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## **Section 7. Handling and Storage**

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**Precautions for Safe Handling:**

Avoid breathing mist or vapors. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Minimize exposure to air. After opening, purge container with nitrogen before reclosing. Periodically test for peroxide formation on long-term storage. Do not allow to evaporate to near dryness. Do not distill to near dryness. Addition of water or appropriate reducing materials will lessen peroxide formation.

**Conditions for Safe Storage, Including any Incompatibilities:**

Keep container tightly closed and in a well-ventilated place. Store away from heat. Do not allow to freeze.

**Storage stability:**

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Shelf life, use within: 24 months

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## Section 8. Exposure Controls/Personal Protection

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### Control Parameters:

#### Occupational Exposure Limits:

Country specific exposure limits have not been established or are not applicable unless listed below.

Chemical Name	Type	Exposure Limit Values	Source
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve	TWA	20 ppm	US. ACGIH Threshold Limit Values (01 2010)
	PEL	50 PPM 240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

### Biological Limit Values:

Chemical Name	Exposure Limit Values	Source
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve	20 mg/g (Creatinine in urine)	ACGIH BEL (01 2010)

### Exposure Controls:

#### Appropriate Engineering Controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual Protection Measures, Such As Personal Protective Equipment:

#### General Information:

Eye bath. Washing facilities. Safety shower.

#### Eye/Face Protection:

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

#### Skin Protection:

#### Hand Protection:

Wear chemical-resistant gloves, footwear and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

**Other Protection:**

No data available.

**Respiratory Protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

**Hygiene Measures:**

Observe good industrial hygiene practices.

**Environmental Controls:**

No data available.

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## Section 9. Physical and Chemical Properties

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**Information on basic physical and chemical properties:**

**Appearance:**

Physical State:	Liquid
Form:	Liquid
Color:	White milky liquid

**Odor:** Mild

**Odor Threshold:** ND

**pH:** 7-9

**Freezing Point:** 0° C (32° F)

**Boiling Point (760mmHg):** 100° C (212° F)

**Flash Point:** NA

**Evaporation Rate** NA

**Flammability (solid, gas):** NA

**Flammability – Upper (%):-** NA

**Flammability – Lower (%):-** NA

**Vapor Pressure:** 17mm@ 68°F (20°C) estimated

**Vapor Density (air=1):** No data available

**Specific Gravity:** 1.0 – 1.05 (20°C)

**Solubility:**

**Solubility in Water:** Miscible

**Solubility (other):** No data available

**Partition coefficient**

**(n-octanol/water):** No data available

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Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic Viscosity:	No data available
Explosive Properties:	No data available
Oxidizing Properties:	Not classified

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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## Section 10. Stability and Reactivity

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Reactivity:	None known
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	None known
Conditions to Avoid:	Heats, sparks, flames
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon Dioxide, Carbon Monoxide

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## Section 11. Toxicological Information

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### Information on Likely Routes of Exposure:

Inhalation:	May be harmful if inhaled.
Ingestion:	May be harmful if swallowed.
Skin Contact:	May cause skin irritation.
Eye Contact:	May cause eye irritation.

### Information on Toxicological Effects:

#### Acute Toxicity:

##### Oral

Product:	Oral LD-50: (Rat): 1,300 mg/kg ( <i>2-butoxyethanol</i> )
	Oral LD-50: (Guinea Pig): 1,400 mg/kg ( <i>2-butoxyethanol</i> )

##### Dermal

Product:	Dermal LD-50: (Rat): > 2,000 mg/kg ( <i>2-butoxyethanol</i> )
	Dermal LD-50: (Guinea Pig): > 2,000 mg/kg ( <i>2-butoxyethanol</i> )

##### Inhalation

Product:	Vapour: LC50 (Rat, 3 h): > 4.9 mg/l ( <i>2-butoxyethanol</i> )
	Vapour: LC0 (Guinea Pig, 1 h): > 3.4 mg/l ( <i>2-butoxyethanol</i> )

### Repeated Dose Toxicity

Product: LOAEL (Rat, Oral Study): 69 mg/kg (Target Organ(s): Liver) (*2-butoxyethanol*)  
NOAEL (Rat, Dermal Study): 150 mg/kg (*2-butoxyethanol*)  
LOAEC (Rat, Inhalation Study): 152 mg/m<sup>3</sup> (Target Organ(s): Blood) (*2-butoxyethanol*)

### Skin Corrosion/Irritation

Product: (Rabbit, 24 h): moderate (*2-butoxyethanol*)

### Serious Eye Damage/Eye Irritation

Product: (Rabbit, 24 h): moderate (*2-butoxyethanol*)

### Respiratory or Skin Sensitization

Product: Skin Sensitization: (Guinea Pig) – Not a skin sensitizer.

### Mutagenicity:

#### In Vitro

Product: Salmonella typhimurium assay (Ames test): negative +/- activation.

#### In Vivo

Product: Chromosomal aberration intraperitoneal injection (Mouse, Male): Negative.

### Carcinogenicity

Product: Based on available data the classification criteria are not met. Not classified as hazardous.

### Reproductive Toxicity

Product: Based on available data the classification criteria are not met. Not classified as hazardous.

### Specific Target Organ Toxicity – Single Exposure

Product: Not classified.

### Specific Target Organ Toxicity – Repeated Exposure

Product: Not classified.

### Aspiration Hazard

Product: Droplets of the product aspirated into the lungs through ingestion or vomiting may be harmful.

### Other Adverse Effects

No data available.



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## Section 12. Ecological Information

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### Information on Likely Routes of Exposure:

Inhalation:	May be harmful if inhaled.
Ingestion:	May be harmful if swallowed.
Skin Contact:	May cause skin irritation.
Eye Contact:	May cause eye irritation.

### Information on Toxicological Effects:

#### Acute Toxicity:

##### Oral

Product:	Oral LD-50: (Rat): 1,300 mg/kg ( <i>2-butoxyethanol</i> )
	Oral LD-50: (Guinea Pig): 1,400 mg/kg ( <i>2-butoxyethanol</i> )

##### Dermal

Product:	Dermal LD-50: (Rat): > 2,000 mg/kg ( <i>2-butoxyethanol</i> )
	Dermal LD-50: (Guinea Pig): > 2,000 mg/kg ( <i>2-butoxyethanol</i> )

##### Inhalation

Product:	Vapour: LC50 (Rat, 3 h): > 4.9 mg/l ( <i>2-butoxyethanol</i> )
	Vapour: LC0 (Guinea Pig, 1 h): > 3.4 mg/l ( <i>2-butoxyethanol</i> )

#### Repeated Dose Toxicity

Product:	LOAEL (Rat, Oral Study): 69 mg/kg (Target Organ(s): Liver) ( <i>2-butoxyethanol</i> )
	NOAEL (Rat, Dermal Study): 150 mg/kg ( <i>2-butoxyethanol</i> )
	LOAEC (Rat, Inhalation Study): 152 mg/m <sup>3</sup> (Target Organ(s): Blood) ( <i>2-butoxyethanol</i> )

#### Skin Corrosion/Irritation

Product:	(Rabbit, 24 h): moderate ( <i>2-butoxyethanol</i> )
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#### Serious Eye Damage/Eye Irritation

Product:	(Rabbit, 24 h): moderate ( <i>2-butoxyethanol</i> )
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#### Respiratory or Skin Sensitization

Product:	Skin Sensitization: (Guinea Pig) – Not a skin sensitizer.
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### Mutagenicity:

##### In Vitro

Product:	Salmonella typhimurium assay (Ames test): negative +/- activation.
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#### **In Vivo**

**Product:** Chromosomal aberration intraperitoneal injection (Mouse, Male): Negative.

#### **Carcinogenicity**

**Product:** Based on available data the classification criteria are not met. Not classified as hazardous.

#### **Reproductive Toxicity**

**Product:** Based on available data the classification criteria are not met. Not classified as hazardous.

#### **Specific Target Organ Toxicity – Single Exposure**

**Product:** Not classified.

#### **Specific Target Organ Toxicity – Repeated Exposure**

**Product:** Not classified.

#### **Aspiration Hazard**

**Product:** Droplets of the product aspirated into the lungs through ingestion or vomiting may be harmful.

#### **Other Adverse Effects**

No data available.

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### **Section 13. Disposal Considerations**

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#### **Waste Treatment Methods:**

**General Information:** No data available.

**Disposal Methods:** Dispose of waste and residues in accordance with local authority requirements. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

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### **Section 14. Transport Information**

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#### **DOT:**

Not regulated for transport.

#### **Classification for SEA transport (IMO-IMDG):**

Not regulated for transport.

#### **Classification for AIR transport (IATA/ICAO):**

Not regulated for transport.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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## Section 15. Regulatory Information

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### **Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS (Canada) Status:** Controlled

### **SARA 311/312 Hazard Classifications:**

Immediate (acute) health hazard.  
Delayed (chronic) health hazard.

### **US EPCRA (SARA Title III) Section 313 – Toxic Chemical List:**

2-BUTOXYETHANOL (ETHYLENE GLYCOL MONOBUTYL ETHER) (GLYCOL ETHER CATEGORY)

### **California Proposition 65:**

Warning: This product can expose you to diuron, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**OSHA:** Hazardous

### **Components of this product are reported in the following inventories:**

**TCSA (US toxic Substances Control Act)** All components of this product are listed or otherwise comply.

**AICS/NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme):** All components of this product are listed or otherwise comply.

**DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act):** All components of this product are listed or otherwise comply.

**AICS/NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme):** All components of this product are listed or otherwise comply.

**MITI (Japanese Handbook of Existing and New Chemical Substances):** All components of this product are listed or otherwise comply.

**ECL (Korean Toxic Substances Control Act):** All components of this product are listed or otherwise comply.

**Philippines Inventory (PICCS):** All components of this product are listed or otherwise comply.

**Inventory of Existing Chemical Substances in China:** All components of this product are listed or otherwise comply.

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## Section 16. Other Information

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**Revision Information:** Not relevant

**Key Literature References  
and Sources for Data:** No data available

**Training Information:** No data available

**Date of Issue/Date of Revision:** 12/19/22

### Notice to Reader

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# SAFETY DATA SHEET

## Section 1. Identification

<b>Product Name:</b>	Hurricane CAT 5 Part B Hurricane CAT 4 Part B Hurricane CAT 3 Part B Hurricane EZ Part B
<b>Synonyms:</b>	N/A
<b>Supplier's Details:</b>	Trident 3925 Stern Avenue St. Charles, IL 60174 (866) 951-4293 <a href="http://www.tridentprotects.com">www.tridentprotects.com</a>
<b>Emergency Telephone Number:</b> <b>Chemtrec (outside USA):</b>	CHEMTREC (800) 424-9300 (United States Only) (703) 527-3887

## Section 2. Hazards Identification

### GHS Classification:

<b>Acute toxicity (Inhalation):</b>	Category 4
<b>Skin sensitization:</b>	Category 1
<b>Specific target organ toxicity - single exposure:</b>	Category 3 (Respiratory system)

### GHS Label Elements:

Hazard Pictograms:



Signal Word: Warning

#### Hazard Statements:

May cause an allergic skin reaction.  
Harmful if inhaled.  
May cause respiratory irritation.

#### Precautionary Statements:

##### Prevention:

Avoid breathing dust, mist, gas, vapors or spray. Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

##### Response:

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

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

Call a doctor or emergency medical facility (i.e. 911) if you feel unwell.

If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

##### Storage:

Store in a well-ventilated place.  
Keep container tightly closed.  
Store locked up.

##### Disposal:

Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

#### Hazards not otherwise classified:

None known.

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### Section 3. Composition/Information on Ingredients

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#### Substance/Mixtures

##### Chemical Name:

Mixture

##### Other Means of Identification:

NA

Hurricane CAT 5 Part B

Hurricane CAT 3 Part B

Hurricane EZ Part B

#### CAS number/other identifiers:

##### CAS Number:

Mixture

## Hazardous Components

Chemical Name	Concentration	Additional Identification	Notes
Homopolymer of Hexamethylene Diisocyanate	60 - 80%	CAS-No.: 28182-81-2	
Hydrophilic Aliphatic Polyisocyanate based on Hexamethylene Diisocyanate	10 - 30%	666723-27-9	
Hexamethylene-1,6-Diisocyanate	<0.5%	833-06-0	

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

## Other Ingredients

Chemical Name	Concentration	Additional Identification	Notes
N,N-dimethylcyclohexylamine	0.1 - 1%	CAS-No.: 98-94-2	

This product contains an amine neutralizing agent which is bound in the matrix of this product as a salt. This amine salt is considered essentially unreactive at room temperature. Generation of amine vapors is expected when this product is processed (heated) during the drying/hardening of the coating.

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## Section 4. First Aid Measures

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### Description of Necessary First Aid Measures:

#### Inhalation:

Move to an area free from further exposure. Extreme asthmatic reactions that may occur in sensitized persons can be life threatening. Get medical attention immediately. Administer oxygen or artificial respiration as needed. Asthmatic symptoms may develop and may be immediate or delayed up to several hours.

#### Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Use lukewarm water if possible. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Then remove contact lenses, if easily removable, and continue eye irrigation for not less than 15 minutes. Get medical attention if irritation develops.

#### Skin Contact:

If direct skin contact with isocyanates occurs, immediately remove contaminated clothing and shoes. Wipe off the isocyanate product from the skin using dry towels or other similar absorbent fabric. If readily available, apply a polyglycol-based cleanser (e.g. Colorimetric Laboratories, Inc. (CLI) D-TAM™ Skin Cleanser) or corn oil. Wash with soap and warm water and pat dry. If a polyglycol-based cleanser is not available, wash with soap and warm water for 15 minutes. If available, use a wipe test pad to

verify decontamination is complete (e.g. CLI SWYPE™). Get medical attention if irritation develops. Discard or wash contaminated clothing before reuse.

#### **Ingestion:**

Do NOT induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person. Get medical attention.

#### **Notes to Physician:**

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision. Skin: This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. Ingestion: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound. Inhalation: Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate.

#### **Most Important Symptoms/Effects (both acute and delayed):**

**Acute:** Isocyanate vapors or mist at concentrations above the exposure limits or guidelines can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) with symptoms of runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing difficulty). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the exposure limits or guidelines with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the exposure limits or guidelines may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g. fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

May cause skin irritation with symptoms of reddening, itching, and swelling. Can cause sensitization. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove.

May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor or aerosol may cause irritation with symptoms of burning and tearing.

May cause irritation of the digestive tract; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

**Delayed:** Symptoms affecting the respiratory tract can also occur several hours after overexposure.

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## **Section 5. Firefighting Measures**

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**General Fire Hazards:** Not applicable.

#### **Extinguishing Media:**

**Suitable Extinguishing Media:** Dry chemical, Carbon dioxide (CO<sub>2</sub>), Foam, water spray for large fires.

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**Unsuitable Extinguishing Media:** High volume water jet

**Hazardous Thermal Decomposition:**

By Fire and High Heat: Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke., Hydrogen cyanide, Isocyanate, Isocyanic Acid, Other undetermined compounds

**Special hazards arising from the substance or mixture:**

Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO<sub>2</sub> formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between water and hot diisocyanate can be vigorous.

**Advice for Firefighters:**

**Special firefighting procedures:**

Firefighters should wear NFPA compliant structural firefighting protective equipment, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Exposure to heated diisocyanate can be extremely dangerous.

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**Section 6. Accidental Release Measures**

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**Personal Precautions, Protective Equipment and Emergency Procedures:**

Always wear proper PPE when cleaning up an isocyanate spill or when decontaminating surfaces, tools, or equipment using a neutralization solution. It may take two or more applications of the neutralization solution to decontaminate the surface. Residual surface contamination can be checked using a surface wipe method such as the CLI Swype™ pad.

Implement site emergency response plan. Evacuate non-emergency personnel. The magnitude of the evacuation depends upon the quantity released, site conditions, and the ambient temperature. Isolate the area and prevent access of unauthorized personnel. Notify management.

Call CHEMTREC at 1-800-424- 9300 for assistance and advice.

**Environmental Precautions:**

Avoid release to the environment.

**Methods and Materials for Containment and Cleaning Up:**

Wear necessary personal protective equipment (PPE) as specified in the SDS or the site emergency response plan. Ventilate and remove ignition sources. Control the source of the leak. Contain the released material by damming, diking, retaining, or diverting into an appropriate containment area. Absorb or pump off as much of the spilled material as possible. When using absorbent, completely cover the spill area with suitable absorbent material (e.g., vermiculite, kitty litter, Oil-Dri®, etc...). Allow

for the absorbent material to absorb the spilled liquid. Shovel the absorbent material into an approved metal container (i.e., 55-gallon salvage drum). Do not fill the container more than 2/3 full to allow for expansion, and do not tighten the lid on the container. Repeat application of absorbent material until all liquid has been removed from the surface. For spills involving a solid product, remove mechanically (sweep up, vacuum, shovel etc.) and collect and place into an approved metal container.

Decontaminate the spill surface area using a neutralization solution (see list of solutions on the SDS); scrubbing the surface with a broom or brush helps the decontamination solution to penetrate into porous surfaces. Wait at least 15 minutes after first application of the neutralization solution. Cover the area with absorbent material and shovel this into an approved metal container. Residual surface contamination can be checked using a wipe test pad to verify decontamination is complete (e.g. CLI Surface Swype™). If the wipe test pad demonstrates that isocyanate remains on the surface (red color on pad), repeat applications of neutralization solution, with scrubbing, followed by absorbent until the surface is decontaminated (no color change on wipe pad). Apply lid loosely to metal waste container (do not tighten the lid because carbon dioxide gas and heat can be generated from the neutralization process). With the lid still loosely in place, move the container to an isolated, well-ventilated area to allow release of carbon dioxide. After 72 hours, seal the container, and properly dispose of the waste material and any contaminated equipment (i.e., broom or brush) in accordance with existing federal, state and local regulations.

#### Additional Spill Procedures/Neutralization:

Products or product mixtures that have been shown to be effective neutralization solutions for decontaminating surfaces, tools, or equipment that have been in contact with an isocyanate include, but are not limited to:

Colorimetric Laboratories, Inc. (CLI): 1-847-803-3737

- Isocyanate Decontamination Solution

Spartan Chemical Company: 1-800-537-8990

- Spartan® ShineLine Emulsifier Plus (stripping solution)
- Spartan® SC-200 Heavy Duty Cleaner

ZEP Commercial Heavy Duty Floor Stripper

- A mixture of 90% water, 10% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10)
- A mixture of 75% water, 20% non-ionic surfactant, and 5% n-propanol
- A mixture of 80% water, 10% non-ionic surfactant, 5% isopropanol, 5% ammonium hydroxide (household ammonia)

#### Notification Procedures:

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

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## Section 7. Handling and Storage

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### Precautions for Safe Handling:

Do not breathe vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor) are not adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do not breathe smoke and gases created by overheating or burning this material. Decomposition products can be highly toxic and irritating. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected.

### Conditions for Safe Storage, Including any Incompatibilities:

Store separate from food products.

Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### Storage Temperature:

Minimum: 0 °C (32 °F)  
Maximum: 30 °C (86 °F)

### Storage stability:

Shelf life, use within: 6 Months @ 25 °C (77 °F) after receipt of material by customer

### Substances to Avoid:

Water, Amines, Strong bases, Alcohols, Copper alloys

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## Section 8. Exposure Controls/Personal Protection

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### Control Parameters:

#### Occupational Exposure Limits:

Chemical Name	Exposure Limit Values	Source
Homopolymer of Hexamethylene Diisocyanate (28182-81-2)	Time weighted average 0.5 mg/m <sup>3</sup>	
	Short Term Exposure Limit (STEL): 1.0 mg/m <sup>3</sup> (15-min)	

Chemical Name	Exposure Limit Values	Source
Hexamethylene-1,6-Diisocyanate (822-06-0)	Time weighted average 0.005 ppm	US. ACGIH Threshold Limit Values

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

#### Exposure Controls:

##### Appropriate Engineering Controls:

Good industrial hygiene practice dictates that worker protection should be achieved through engineering controls, such as ventilation, whenever feasible. When such controls are not feasible to achieve full protection, the use of respirators and other personal protective equipment is mandated. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent emissions into the workplace. If oven off-gases are not vented properly (i.e. they are released into the work area), it is possible to be exposed to airborne monomeric HDI.

##### General Information:

Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions.

##### Eye/Face Protection:

When directly handling liquid product, eye protection is required. Examples of eye protection include a chemical safety goggle, or chemical safety goggle in combination with a full face shield when there is a greater risk of splash.

##### Skin Protection:

Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact., Gloves, long sleeved shirts and pants

##### Hand Protection:

Ensure gloves remain in good condition during use and replace if any deterioration is observed. Gloves should be worn., Nitrile rubber gloves., Butyl rubber gloves., Neoprene gloves

##### Other:

No data available.

##### Respiratory Protection:

A respirator that is recommended or approved for use in isocyanate-containing environments (air-purifying or fresh air-supplied) may be necessary for spray applications or other situations such as high temperature use which may produce inhalation exposures. A supplied-air respirator (either positive pressure or continuous flow-type) is recommended. Before an air-purifying respirator can be used, air monitoring must be performed to measure airborne concentrations of HDI monomer and HDI polyisocyanate. Specific conditions under which air-purifying respirators can be used are outlined in the following sections. Observe OSHA regulations for respirator use (29 CFR 1910.134). SPRAY

APPLICATION: A. Good industrial hygiene practice dictates that when isocyanate-based coatings are spray applied, some form of respiratory protection should be worn. During the spray application of coatings containing this product the use of a supplied-air (either positive pressure or continuous flow-type) respirator is mandatory when ONE OR MORE of the following conditions exists: -the airborne isocyanate concentrations are not known; or -the airborne isocyanate monomer concentrations exceed 0.05 ppm averaged over eight (8) hours (10 times the 8 hour TWA exposure limit); or -the airborne polyisocyanate (polymeric, oligomeric) concentrations exceed 5 mg/m<sup>3</sup> averaged over 8 hours or 10 mg/m<sup>3</sup> averaged over 15 minutes (10 times the 8 hour TWA or the 15 minute STEL exposure limits); or -operations are performed in a confined space (See OSHA Confined Space Standard, 29 CFR 1910.146). A properly fitted air-purifying (combination organic vapor and particulate) respirator, proven by test to be effective in isocyanate-containing spray paint environments, and used in accordance with all recommendations made by the manufacturer, can be used when ALL of the following conditions are met: -The airborne isocyanate monomer concentrations are known to be below 0.05 ppm averaged over eight (8) hours (10 times 8 hour TWA exposure limit); and -the airborne polyisocyanate (polymeric, oligomeric) concentrations are known to be below 5 mg/m<sup>3</sup> averaged over 8 hours or 10 mg/m<sup>3</sup> averaged over 15 minutes (10 times the 8 hour TWA or the 15 minute STEL exposure limits). In addition, prefilters should be changed whenever breathing resistance increases due to particulate buildup.

NON-SPRAY OPERATIONS: A. During non-spray operations such as mixing, batch-making, brush or roller application, etc., at elevated temperatures (for example, heating of material or application to a hot substrate), it is possible to be exposed to airborne isocyanate vapors. Therefore, when the coatings system will be applied in a non-spray manner, a supplied-air (either positive pressure or continuous flow-type) respirator is mandatory when ONE OR MORE of the following conditions exists: - the airborne isocyanate concentrations are not known; or - the airborne isocyanate monomer concentrations exceed 0.05 ppm averaged over eight (8) hours (10 times the 8 hour TWA exposure limit); or - the airborne polyisocyanate (polymeric, oligomeric) concentrations exceed 5 mg/m<sup>3</sup> averaged over 8 hours or 10 mg/m<sup>3</sup> averaged over 15 minutes (10 times the 8 hour TWA or the 15 minute STEL exposure limits); or - operations are performed in a confined space (See OSHA Confined Space Standard, 29 CFR 1910.146). A properly fitted air-purifying (combination organic vapor and particulate) respirator, proven by test to be effective in isocyanate-containing paint environments, and used in accordance with all recommendations made by the manufacturer, can be used when ALL of the following conditions are met: -the airborne concentrations of the isocyanate monomer are below 0.05 ppm averaged over eight (8) hours (10 times the 8 hour TWA exposure limit); and - the airborne polyisocyanate (polymeric, oligomeric) concentrations are known to be below 5 mg/m<sup>3</sup> averaged over eight (8) hours or 10 mg/m<sup>3</sup> averaged over 15 minutes (10 times the 8 hour TWA or the 15 minute STEL exposure limits) and - a NIOSH-certified End of Service Life Indicator or a change schedule based upon objective information or data is used to ensure that cartridges are replaced before the end of their service life. In addition, pre-filters should be changed whenever breathing resistance increases due to particulate buildup.

#### Medical Surveillance:

All applicants who are assigned to an isocyanate work area should undergo a pre-placement medical evaluation. A history of eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Applicants who have a history of adult asthma should be restricted from work with isocyanates. Applicants with a history of prior isocyanate sensitization should

be excluded from further work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates. Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted

#### Additional Protective Measures:

Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions.

#### Hygiene Measures:

Observe good industrial hygiene practices.

#### Environmental Controls:

No data available.

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## Section 9. Physical and Chemical Properties

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#### Information on Basic Physical and Chemical Properties:

##### Appearance:

Physical State:	Liquid
Form:	Liquid
Color:	Light Yellow

Odor:	Slight
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Odor Threshold:	No Data Available
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pH:	No Data Available
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Freezing Point:	No Data Available
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Boiling Point:	Decomposition
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Flash Point:	ca. 185 °C (365 °F) (DIN EN 22719)
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Evaporation Rate:	No Data Available
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Flammability (solid, gas):	NA
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Flammability – Upper (%)-:	NA
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Flammability – Lower (%)-:	NA
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Vapor Pressure:	HDI Polyisocyanate: 5.2 X 10 <sup>-9</sup> @ 68 F (20 C) mmHg
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Vapor Density (air=1):	No data available
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Specific Gravity:	Approximately 1.15 @ 20 °C (68 °F)
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##### Solubility:

Solubility in Water:	Insoluble - Reacts slowly with water to liberate CO <sub>2</sub> gas
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Solubility (other):	No data available
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##### Partition coefficient

(n-octanol/water):	No data available
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Auto-ignition Temperature:	ca. 445 °C (833 °F) (DIN 51794)
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Decomposition Temperature:	ca. 181 °C (357.8 °F)
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Dynamic Viscosity:	Approximately 800 mPa.s @ 20 °C (68 °F)
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Kinematic Viscosity:	No data available
Explosive Properties:	No data available
Oxidizing Properties:	Not classified

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## Section 10. Stability and Reactivity

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Reactivity:	Contact with moisture, other materials that react with isocyanates, or temperatures above 350 F (177 C), may cause polymerization, Moisture (water and high humidity) or high heat (temperatures greater than 350 F (177C)) can cause pressure build-up with possible explosive rupture.
Chemical Stability:	Stable under normal conditions of use and storage.
Possibility of Hazardous Reactions:	None known
Conditions to Avoid:	Heat, flames and sparks. Protect from freezing.
Incompatible Materials:	Water, Amines, Strong bases, Alcohols, Copper alloys
Hazardous Decomposition Products:	By Fire and High Heat: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke., Hydrogen cyanide, Isocyanate, Isocyanic Acid, Other undetermined compounds

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## Section 11. Toxicological Information

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### Information on Likely Routes of Exposure:

Inhalation:	May be harmful if inhaled.
Ingestion:	May be harmful if swallowed.
Skin Contact:	May cause skin irritation.
Eye Contact:	May cause eye irritation.

### Information on Toxicological Effects:

#### **Health Affects and Symptoms:**

Isocyanate vapors or mist at concentrations above the exposure limits or guidelines can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) with symptoms of runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing difficulty). Persons with a preexisting, nonspecific bronchial hyper reactivity can respond to concentrations below the exposure limits or guidelines with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the exposure limits or guidelines may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g. fever, chills), has

also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

May cause skin irritation with symptoms of reddening, itching, and swelling. Can cause sensitization. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove.

May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor or aerosol may cause irritation with symptoms of burning and tearing.

May cause irritation of the digestive tract; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

### Acute Toxicity:

**Oral** LD50:  $\geq 5,000$  mg/kg (rat, female) (OECD Test Guideline 423)

Toxicological studies at the product

**Dermal** LD50:  $> 2,000$  mg/kg (rat, male/female) (OECD Test Guideline 402)

Studies of a comparable product

LD50: 2,000 mg/kg (rabbit, male/female) Studies of a comparable product.

**Inhalation** LC50: 0.39 mg/l, 4 h, dust/mist (rat, female) (OECD Test Guideline 403)

Toxicological studies of a comparable product. The test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of the evidence, a modified classification for acute inhalation toxicity is justified.

**Eye Contact** May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor or aerosol may cause irritation with symptoms of burning and tearing.

**Skin Irritation** Rabbit, OECD Test Guideline 404, slight irritant

Toxicological studies at the product

**Eye Irritation** Rabbit OECD Test Guideline 405, slight irritant

Toxicological studies at the product

### Repeated Dose Toxicity

90 d, Inhalative: NOAEL: 3,3, (rat, male/female, 6 hours a day, 5 days a week) Toxicological studies of a comparable product. Evidence of damage to organs other than the organs of respiration was not found.



### Skin Sensitization

Skin sensitization (local lymph node assay (LLNA)):: Causes sensitization. (Mouse, OECD Test Guideline 429). Toxicological studies at the product.

### Serious Eye Damage/Eye Irritation

Rabbit, OECD Test Guideline 405, slight irritant  
Toxicological studies at the product

### Respiratory Sensitization

No pulmonary sensitization observed in animal tests. No pulmonary sensitization potential was observed in guinea pigs after either intradermal or inhalative induction with polyisocyanate based on hexamethylene diisocyanate.

### Mutagenicity:

#### In Vitro

Product: Salmonella/microsome test (Ames test): negative (Salmonella typhimurium, Metabolic Activation: with/without)

#### In Vivo

Product: Micronucleus test: negative (Mouse, male/female, Inhalative) negative

### Carcinogenicity

Rat, male/female, Inhalative, 2 yrs, 6 hours/day, 5 days/week Did not show carcinogenic effects in animal experiments

No carcinogenic substances as defined by IARC, NTP and/or OSHA

### Reproductive Toxicity

Product: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test, Inhalative, 6 hours/day 7 days/week, (rat, male/female) NOAEL (F2): 0.3 ppm  
Fertility and developmental toxicity tests did not reveal any effect on reproduction.

### Specific Target Organ Toxicity – Single Exposure

Product: Not classified.

### Specific Target Organ Toxicity – Repeated Exposure

Product: Not classified.

### Neurological Effects

Rats exposed by inhalation, 6 hours/day, for approximately 3 weeks, to concentrations as high as 0.3 ppm showed no neurobehavioral effects or damage to nerve tissues.

### Developmental Toxicity/Teratogenicity

Rat, female, Inhalative, 6 hours/day (Exposure duration: day 0 - 19 of gestation), NOAEL (teratogenicity): 0.3 ppm, NOAEL (maternal): 0.005 ppm Did not show teratogenic effects in animal experiments.

### Other Adverse Effects

No data available.

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## Section 12. Ecological Information

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### Ecological Data for: SB-6700 Part B

Data on the product is not available.

Please find the data available for the components.

### Ecological Data for Homopolymer of Hexamethylene Diisocyanate

#### Toxicity:

#### Acute Toxicity:

##### Fish

LC50: > 100 mg/l (Danio rerio (zebra fish), 96 h)

##### Aquatic Invertebrates

EC50: > 100 mg/l (Daphnia magna (Water flea), 48 h)

##### Aquatic Plants

ErC50: 199 mg/l, (scenedesmus subspicatus, 72 h)

##### Microorganisms

EC50: > 10,000 mg/l, (activated sludge, 3 h)

#### Additional Ecotoxicological Remarks

Data is based on a similar product, including residual monomer.

#### Chronic Toxicity:

##### Fish

LC50: > 100 mg/l (Danio rerio (zebra fish), 96 h)

#### Persistence and Degradability:

##### Biodegradation

Aerobic, 2 %, Exposure time: 28 d, i.e. not readily degradable Ecotoxicological studies of the product.

Aerobic, 0 %, Exposure time: 28 d, i.e. not inherently degradable Ecotoxicological studies of the product.

#### Biological Oxygen Demand

No data available.

#### Chemical Oxygen Demand

No data available.

#### BOD/COD Ratio

No data available.

#### Bioaccumulation

706.2 BCF - The substance hydrolyzes rapidly in water. An accumulation in aquatic organisms is not to be expected

10.11 BCF - An accumulation in aquatic organisms is not to be expected. Studies of hydrolysis products.

#### Ecological Data for Hydrophilic Aliphatic Polyisocyanate based on Hexamethylene Diisocyanate

#### Toxicity:

#### Acute Toxicity:

##### Fish

LC50: 35.2 mg/l (Danio rerio (zebra fish), 96 h)  
Ecotoxicological reports on a comparable product

##### Aquatic Invertebrates

EC50: > 100 mg/l (Daphnia magna (Water flea), 48 h)  
Ecotoxicological reports on a comparable product

##### Aquatic Plants

IC50: 72 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)  
Ecotoxicological reports on a comparable product

##### Microorganisms

EC50: > 10,000 mg/l, (activated sludge)  
Ecotoxicological reports on a comparable product

#### Additional Ecotoxicological Remarks

Data is based on a similar product, including residual monomer.

## Chronic Toxicity:

### Fish

LC50: 35.2 mg/l (Danio rerio (zebra fish), 96 h)  
Eco toxicological reports on a comparable product

## Persistence and Degradability:

### Biodegradation

0 %, i.e. not readily degradable  
Eco toxicological reports on a comparable product

## Biological Oxygen Demand

No data available.

## Chemical Oxygen Demand

No data available.

## BOD/COD Ratio

No data available.

## Bioaccumulation

No data available.

## Ecological Data for Hexamethylene-1, 6-Diisocyanate

## Toxicity:

### Acute Toxicity:

#### Fish

LC0:  $\geq$  82.8 mg/l (Danio rerio (zebra fish), 96 h)

#### Aquatic Invertebrates

EC0:  $\geq$  89.1 mg/l (Daphnia magna (Water flea), 48 h)

#### Aquatic Plants

ErC50:  $>$  77.4 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

#### Toxicity to Microorganisms

EC50: 842 mg/l, (activated sludge, 3 h)

### Chronic Toxicity:

#### Fish

LC0:  $\geq$  82.8 mg/l (Danio rerio (zebra fish), 96 h)

## Persistence and Degradability:

### Biodegradation

Aerobic, 42 %, Exposure time: 28 d, i.e. not readily degradable

### Biological Oxygen Demand

No data available.

### Chemical Oxygen Demand

No data available.

### BOD/COD Ratio

No data available.

### Bioaccumulation

Value calculated, 57.6 BCF. An accumulation in aquatic organisms is not to be expected.

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## Section 13. Disposal Considerations

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### Waste Treatment Methods:

General Information: No data available.

Disposal Methods: Waste disposal should be in accordance with existing federal, state and local environmental control laws. Incineration is the preferred method.

Empty Container Precautions: Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed prior to disposal.

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## Section 14. Transport Information

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*Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and description. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.*

### Land transport (DOT)

Proper Shipping Name: Other regulated substances, liquid, n.o.s. (contains Hexamethylene-1,6-Diisocyanate)  
Hazard Class or Division: 9  
UN/NA Number: NA3082  
Packaging Group: III

Hazard Label(s): CLASS 9  
**RSPA/DOT Regulated Components:**  
Hexamethylene-1,6-Diisocyanate  
Reportable Quantity:  
9074 kg (20005 lb)

**IMDG-International Maritime Dangerous Goods Code:**  
Class not regulated.

**IATA:**  
Class not regulated.

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## Section 15. Regulatory Information

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**Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:**  
This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS (Canada) Status:** Controlled

**SARA 311/312 Hazard Classifications:**  
Refer to hazard classification information in Section 2.

**US EPCRA (SARA Title III) Section 313 – Toxic Chemical List:**  
None

**US EPA CERCLA Hazardous Substances (40 CFR 302) Components:**  
None

**US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:**  
None

**US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:**  
None

**US EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):**

Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

**California Proposition 65 List:**

<b>Concentration</b>	<b>Components</b>	<b>CAS-No.</b>
<1 ppm	Hexachlorobenzene	118-74-1

### State Right-To-Know Information:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

#### Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
60 - 100%	Homopolymer of Hexamethylene Diisocyanate	28182-81-2
15 - 25%	Hydrophilic Aliphatic Polyisocyanate based on Hexamethylene Diisocyanate	666723-27-9
0.1 - 1%	N,N-dimethylcyclohexylamine	98-94-2
<0.5%	Hexamethylene-1,6-Diisocyanate	822-06-0

#### New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 1%	N,N-dimethylcyclohexylamine	98-94-2
<0.5%	Hexamethylene-1,6-Diisocyanate	822-06-0

#### California Proposition 65 List:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<1 ppm	Hexachlorobenzene	118-74-1

#### CFATS (Chemical Facility Anti-Terrorism Standards) Chemicals

To the best of our knowledge, this product does not contain Appendix A Chemicals of Interest (COI), at or above the Screening Threshold Quantity (STQ), as defined by the Department of Homeland Security Chemical Facility Anti-terrorism Standard (CFATS, 6 CFR Part 27).

### Components of this product are reported in the following inventories:

#### TSCA (US toxic Substances Control Act)

No substances are subject to TSCA 12(b) export notification requirements.

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## Section 16. Other Information

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**Revision Information:** Not relevant.

**Key Literature References and Sources for Data:** No data available.

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**Training Information:** No data available.

**Date of Issue/Date of Revision:** 2/21/23

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