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Version 1

## 1. IDENTIFICATION

### Product identifier

Product Name XPS-AHP85-B

### Other means of identification

SDS #

### Recommended use of the chemical and restrictions on use

Recommended Use Polyurea coating.

### Details of the supplier of the safety data sheet

Supplier Address  
2200 NW 32 St. #700  
POMPANO BEACH, FL 33069

### Emergency telephone number

Emergency Telephone US CHEMTEL 1(800) 255-3924

## 2. HAZARDS IDENTIFICATION

Appearance Light yellow liquid

Physical state Liquid

### Classification

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Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Aspiration toxicity	Category 1

**Signal Word**  
**Danger**

**Hazard statements**

Harmful if inhaled  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May be fatal if swallowed and enters airways



**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

IF ON SKIN: Wash with plenty of water and soap  
Wash contaminated clothing before reuse  
If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting





## Precautionary Statements - Storage

Store locked up

## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## Other hazards

Toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Light aromatic petroleum naphtha	64742-95-6	13-17
Hexamethylene diisocyanate	822-06-0	<0.5

\*\*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

#### Description of first aid measures

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin Contact</b>	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call Poison Control or doctor/physician.
<b>Ingestion</b>	Immediately call a poison center or doctor/physician. Do NOT induce vomiting.

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	May be harmful in contact with skin. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May be fatal if swallowed and enters airways.
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## Indication of any immediate medical attention and special treatment needed

**Notes to Physician**                      Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

In case of fire: water fog, foam, dry chemical powder, carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media**                      Water jet.

### Specific Hazards Arising from the Chemical

During fire, nitrous gases, fumes/smoke, isocyanates and vapor may be formed.

### Protective equipment and precautions for firefighters

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

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions**                      Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

### Environmental precautions

**Environmental precautions**                      See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for Containment**                      Prevent further leakage or spillage if safe to do so.





**Methods for Clean-Up**

For containment, ensure adequate ventilation and absorb any spill with inert liquid binding material and dispose of waste safely.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling**

Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing and eye/face protection.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Store locked up.

**Incompatible Materials**

Acids, amines, alcohols, water, alkalines, strong bases, substances/products that react with isocyanates.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hexamethylene diisocyanate 822-06-0	TWA: 0.005 ppm	-	Ceiling: 0.020 ppm 10 min Ceiling: 0.140 mg/m <sup>3</sup> 10 min TWA: 0.005 ppm TWA: 0.035 mg/m <sup>3</sup>

**Appropriate engineering controls**





## Engineering Controls

Local exhaust ventilation required. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation. Provide sufficient ventilation to keep vapors below permissible exposure limit. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

## Individual protection measures, such as personal protective equipment

### Eye/Face Protection

Use tightly sealed goggles or safety glasses with side shields which are resistant to Chemicals. Refer to 29 CFR 1910.133 for eye and face protection regulations.

### Skin and Body Protection

Wear chemical resistant protection gloves. Wear impervious clothing as necessary to protect against coming in contact with product. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

### Respiratory Protection

If insufficient ventilation, wear respiratory protection. Refer to 29 CFR 1910.134 for respiratory protection requirements.

### General Hygiene Considerations

Do not eat, drink or smoke during work. Avoid all contact with skin or eye. If clothing comes into contact with material, do not allow out of the workplace. Clean hands and any exposed skin thoroughly after work and before breaks.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state** Liquid

**Appearance** Light yellow liquid

**Odor** Not determined

**Color** Light yellow

**Odor Threshold** Not determined

### Property      Values

### Remarks • Method

**pH** No data available

**Melting point / freezing point** No data available

**Initial boiling point and boiling range** 149 °C / 300.2 °F





**Flash point** 106 °C / 222.8 °F

**Evaporation Rate** Not determined

**Flammability (Solid, Gas)** Not determined

**Flammability Limit in Air**

**Upper flammability or explosive limits** No data available

**Lower flammability or explosive limits** No data available

**Vapor Pressure** Not determined

**Vapor Density** No data available

**Relative Density** 1.05-1.10

**Water Solubility** Reacts with water

**Solubility in other solvents** Not determined

**Partition Coefficient** Not determined

**Autoignition temperature** No data available

**Decomposition temperature** Not determined

**Kinematic viscosity** Not determined

**Dynamic Viscosity** Not determined

**Explosive Properties** Not determined

**Oxidizing Properties** Not determined

## 10. STABILITY AND REACTIVITY

### Reactivity





Not reactive under normal conditions.

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols. Reacts with acids. Reacts with alkalis. Reacts with amines. Risk of exothermic reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of substance/product with subsequent loss in strength.

### **Conditions to Avoid**

Avoid moisture. Strong oxidizing agents. Strong acids.

### **Incompatible materials**

Acids, amines, alcohols, water, alkalines, strong bases, substances/products that react with isocyanates.

### **Hazardous decomposition products**

Carbon monoxide, carbon dioxide, Nitrogen oxide, hydrogen cyanide, aromatic isocyanates, gases/vapors.

## 11. TOXICOLOGICAL INFORMATION

### **Information on likely routes of exposure**

#### **Product Information**

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	May be harmful in contact with skin.
<b>Inhalation</b>	Harmful if inhaled.
<b>Ingestion</b>	Do not ingest.

### **Component Information**





Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hexamethylene diisocyanate, oligomers 28182-81-2	-	> 2000 mg/kg ( Rat )	= 18500 mg/m <sup>3</sup> ( Rat ) 1 h
Light aromatic petroleum naphtha 64742-95-6	= 8400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 3400 ppm ( Rat ) 4 h
Hexamethylene diisocyanate 822-06-0	= 738 mg/kg ( Rat )	> 7000 mg/kg ( Rat )	= 0.06 mg/L ( Rat ) 4 h

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Please see section 4 of this SDS for symptoms.

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

**Sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

- Oral LD50 8,505.00 mg/kg
- Dermal LD50 2,094.20 mg/kg
- ATEmix (inhalation-dust/mist) 4.308 mg/l

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Component Information**





Chemical name	Algae/aquatic plants	Fish	Crustacea
Light aromatic petroleum naphtha 64742-95-6		LC50: =9.22mg/L (96h, Oncorhynchus mykiss)	EC50: =6.14mg/L (48h, Daphnia magna)
Hexamethylene diisocyanate 822-06-0		LC50: =26.1mg/L (96h, Brachydanio rerio)	

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**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**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 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

### Marine Pollutant

This material may meet the definition of a marine pollutant

## 15. REGULATORY INFORMATION

### International Inventories

Chemical name	TSC A	TSCA Inventory Status	DSL/ NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AIIC
Hexamethylene diisocyanate, oligomers	X	ACTIVE	X	X	X	X	X	X	X
Light aromatic petroleum naphtha	X	ACTIVE	X	X		X	X	X	X
Hexamethylene diisocyanate	X	ACTIVE	X	X	X	X	X	X	X

#### 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

*AICS* - Australian Inventory of Chemical Substances

### US Federal Regulations

#### CERCLA

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hexamethylene diisocyanate 822-06-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ





### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Hexamethylene diisocyanate 822-06-0	X	X	





## 16. OTHER INFORMATION

### NEPA

- Health hazards
- Flammability
- Instability
- Special hazards

### HMIS

- Health hazards
- Flammability
- Physical hazards
- Personal Protection

Not determined

**Issue Date:** 06-Dec-2023  
**Revision Date:** 07-Dec-2023  
**Revision Note:** New format

### 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

