

# Safety Data Sheet

Issue Date: 06-Dec-2023

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Version 1

## 1. IDENTIFICATION

Product identifier

Product Name SCI-300-8084-SC-B

Other means of identification

SDS # SCIC-026

Recommended use of the chemical and restrictions on use

Recommended Use Polyaspartic coating.

Details of the supplier of the safety data sheet

**Supplier Address**

THIS SAFETY DATA SHEET  
IS NOT COMPLIANT UNLESS  
U.S. ADDRESS IS USED

Emergency telephone number

Emergency Telephone INSERT PHONE NUMBER(S)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear liquid

**Physical state** Liquid

**Classification**

Respiratory sensitization	Category 1
Skin sensitization	Category 1

**Signal Word**

Danger

**Hazard statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray  
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: If breathing is difficult, 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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Hexamethylene diisocyanate	822-06-0	0.1-0.15

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

### 4. FIRST AID MEASURES

#### Description of first aid measures

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin Contact** Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

**Inhalation** If breathing is difficult, 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.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

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

**Symptoms** May be harmful in contact with skin. May be harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Carbon dioxide, appropriate foam, water spray, dry chemical powder.

**Unsuitable Extinguishing Media** Not determined.

#### Specific Hazards Arising from the Chemical

Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (NOx) is to be expected. Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

#### 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**

As a general precaution, take personal precaution not to breath gas, vapors, or dusts. Do not get in eyes, on skin or clothing. Use appropriate personal protection equipment. In the event of an emergency, evacuate any unnecessary personnel.

### Environmental precautions

#### **Environmental precautions**

As an environmental precaution, prevent spillage to sewers, public waters, and do not penetrate ground/soil. 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. 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**

Keep containers tightly closed in a dry, cool and well-ventilated place.

#### **Incompatible Materials**

Water, amines, strong acids and bases, alcohols, and copper alloys.

## 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**

<b>Eye/Face Protection</b>	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.
<b>Skin and Body Protection</b>	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.
<b>Respiratory Protection</b>	If insufficient ventilation, wear respiratory protection. Refer to 29 CFR 1910.134 for respiratory protection requirements.
<b>General Hygiene Considerations</b>	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**

<b>Physical state</b>	Liquid		
<b>Appearance</b>	Clear liquid	<b>Odor</b>	Not determined
<b>Color</b>	Colorless	<b>Odor Threshold</b>	Not determined

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	No data available	
<b>Melting point / freezing point</b>	No data available	
<b>Initial boiling point and boiling range</b>	104 °C / 219.2 °F	
<b>Flash point</b>	194 °C / 381.2 °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** 1.13-1.14

**Water Solubility** Insoluble in water Reacts slowly with water to liberate CO<sub>2</sub> gas

**Solubility in other solvents** Not determined

**Partition Coefficient** Not determined

**Autoignition temperature** No data available

**Decomposition temperature** Not determined

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**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

In presence of moisture and when in contact with other materials that react with isocyanates, or temperatures above 177 °C may cause polymerization. Avoid heat, sparks, and flame.

### Conditions to Avoid

Direct sunlight, extremely high or low temperatures.

### Incompatible materials

Water, amines, strong acids and bases, alcohols, and copper alloys.

### Hazardous decomposition products

Nitrogen oxides (NOx). Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

**Eye Contact** Avoid contact with eyes.

**Skin Contact** May be harmful in contact with skin.

**Inhalation** May be harmful if inhaled.

**Ingestion** 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
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.

#### Numerical measures of toxicity

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

Dermal LD50	2,500.00 mg/kg
Gas	13,334.67 ppm
ATEmix (inhalation-dust/mist)	5.683 mg/l

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
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**

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION**

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

**15. REGULATORY INFORMATION****International Inventories**

Chemical name	TS CA	TSCA Inventory Status	DSL/NDS L	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AIIC
Hexamethylene diisocyanate, oligomers	X	ACTIVE	X	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

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**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**

NFPA	Health hazards	Flammability	Instability	Special hazards
-	-	-	-	-

  

HMIS	Health hazards	Flammability	Physical hazards	Personal Protection
-	-	-	-	Not determined

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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**