

**Safety Data Sheet** 

Revision Date: 04-Sep-2023

Version 1

**1. IDENTIFICATION** 

Product identifier Product Name

ResinForce EasyPoly High Solids 24H - Part B

Other means of identification SDS #

RESIN-014

Recommended use of the chemical and restrictions on useRecommended UsePolyurea coating.

# Details of the supplier of the safety data sheet

Supplier Address Resinforce Products LLC 12 Pixley Industrial Parkway Rochester, NY 14624 Phone: (585) 623-5075

# Emergency telephone number

Emergency Telephone

INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

Appearance Clear liquid

Physical state Liquid

# **Classification**

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

#### <u>Signal Word</u> Danger

# Hazard statements

Harmful if inhaled Causes skin irritation Causes serious eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction May cause respiratory irritation



### Precautionary Statements - Prevention

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

# **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap Take off contaminated clothing and wash 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

#### **Precautionary Statements - Storage**

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

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Other hazards

Harmful to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Hexamethylene diisocyanate	822-06-0	0.1-15

\*\*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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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	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 symptom	s and effects, both acute and delayed
Symptoms	May be harmful if swallowed. May be harmful in contact with skin. Harmful if inhaled.

cause respiratory irritation.

Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May

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

#### Notes to Physician

Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

# Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

Not determined.

#### 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. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment. Contaminated work clothing must not be allowed out of the workplace.

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

Storage Conditions	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
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**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 require removed by local or general exh vapors below permissible expos showers should be available in national/local regulations are ob	naust ventilation. Provide su sure limit. Emergency eye v the immediate vicinity of an	ufficient ventilation to keep
ndividual protection measures, s	uch as personal protective equip	oment	
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 Consideratio	ns Do not eat, drink or smoke durir into contact with material, do no skin thoroughly after work and b	t allow out of the workplace	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance Color	Liquid Clear liquid Colorless	Odor Odor Threshold	Not determined Not determined
Property	Values	Remarks • Method	
рН	No data available		
Melting point / freezing point	No data available		
Initial boiling point and boiling	Approximately 104 °C / 219.2 °F		
range			
Flash point	>194 °C / 381.2 °F		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Liquid-Not applicable		
Flammability Limit in Air			
Upper flammability or explosive limits	No data available		
Lower flammability or explosive limits	No data available		
Vapor Pressure	Butyl acetate: 15 @ 20°C		
	Poly isocyanate: 5.2 x 10 -9 @ 20°C		
Vapor Density	No data available		
Relative Density	1.13-1.14		
-			

#### Property Water Solubility Solubility in other solvents Partition Coefficient Autoignition temperature Hyphen Kinematic viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties

Values Insoluble in water Not determined Not determined

# Remarks • Method

# **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	Harmful if inhaled.
Ingestion	May be harmful if swallowed.

### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hexamethylene diisocyanate, oligomers 28182-81-2	-	> 2000 mg/kg (Rat)	= 18500 mg/m³(Rat)1 h
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
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 v	well as chronic effects from short and long-term exposure
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
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.
STOT - single exposure	May cause respiratory irritation.
Numerical measures of toxicity	
The following values are calculated Oral LD50 Dermal LD50 Gas ATEmix (inhalation-dust/mist)	I based on chapter 3.1 of the GHS document 3,690.00 mg/kg 3,093.90 mg/kg 500.05 ppm 3.511 mg/l

# **12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

### **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Hexamethylene diisocyanate		LC50: =26.1mg/L (96h, Brachydanio	
822-06-0		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**

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

# 15. REGULATORY INFORMATION

#### International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIIC
Hexamethylene diisocyanate, oligomers	Х	ACTIVE	х	Х	Х	Х	Х	Х	Х
Hexamethylene diisocyanate	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х

#### 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	100 lb		RQ 100 lb final RQ
822-06-0			RQ 45.4 kg final RQ

# <u>SARA 313</u>

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Hexamethylene diisocyanate - 822-06-0	822-06-0	0.1-15	1.0

# 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	Х	Х	
822-06-0			

# **16. OTHER INFORMATION**

NFPA	Health hazards	Flammability	Instability	Special hazards
<u>HMIS</u>	Health hazards -	Flammability -	Physical hazards -	Personal Protection Not determined
Issue Date: Revision Date: Revision Note:	04-Sep-2023 04-Sep-2023 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**