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Version 1

1. IDENTIFICATION

Product identifier

Product Name XPS-POLY SlowCure 2G MET-B

Other means of identification

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.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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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 ³ 10 min TWA: 0.005 ppm TWA: 0.035 mg/m ³

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 Clear liquid

Odor Not determined

Color Colorless

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 104 °C / 219.2 °F

Flash point 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 CO₂ gas

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

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 (NO_x). 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 ³ (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

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 Not regulated

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
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

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

