

MATERIAL SAFETY DATA SHEET

1. Identification of the Substance / Preparation and of the Company Undertaking

Product Name: SpECTite Polyurea Hardener

Product Use: Coatings

Company: Speciality Engineering Chemicals

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2. Composition / Information on Ingredients

Composition: Polyisocyanate, diluents and inorganic fillers mixture.

Hazardous Ingredient(s)	Symbol	CAS No.	Risk Phrases	%
4,4'-diphenylmethanediisocyanate	Xn	9016-87-9	R20/36/37/43	>90

3. Hazards Identification

Non-hazardous
Harmful if inhaled



4. First Aid Measures

- General:** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Eyes:** Check for and remove contact lenses if any. Irrigate copious amount of water for several minutes keeping eye lids open. Obtain medical attention if problem persists.
- Skin:** Wash thoroughly with soap and water or suitable skin cleanser immediately. Obtain medical attention if problem persists.
- Inhalation:** Remove to fresh air. If not breathing or irregular breathing, provide artificial respiration. Seek medical attention if the problem continues.
- Ingestion:** Do not induce vomiting. Obtain medical attention and show the container or label.

5. Fire Fighting Measures

- Suitable Extinguishing Media:** CO₂ / Dry chemical powder. Do not use water jets.
- Special Exposure Hazards:** Toxic fumes.
- Special Protective Equipment:** Self - contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions: Wear gloves and other suitable protective clothing.

Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Soak-up with inert absorbent or contain and remove by best available means. Gather into containers. Dispose of as hazardous waste.

7. Handling and Storage

Handling:	Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation.
Storage:	Keep containers dry, cool and tightly closed.
Decontamination Procedure:	Soak-up with inert absorbent or contain and remove by best available means. Gather into containers. Dispose of as waste.

8. Exposure Controls / Personal Protection

NOHSC 1003 (1995) Exposure Standard: Isocyanate 0.02mg/m³ TWA, 0.07mg/m³ STEL (as NCO)

Engineering Control Measures: Use with adequate general and local exhaust ventilation

Personal Protective Equipment: Impervious gloves, safety goggles, plastic apron.

9. Physical and Chemical Properties

State:	Liquid
Colour:	Brown
Odour:	Earthy
Flash Point (°C):	>200
SG/Bulk Density:	1.15
Solubility:	Insoluble

10. Stability and Reactivity

Stability:	Stable under normal conditions. Polymerises at high temperature with CO ₂ evolution
Conditions to avoid:	Exothermic reactions with amines and alcohols. Reacts with water forming CO ₂ . risk of bursting in closed containers due to increase in pressure

11. Toxicological Information

Acute toxicity: LD50 oral, rat: >15000mg/kg

This product may be an irritant. May produce inflammatory reactions on inhalation.

12. Ecological Information

When used and disposed as intended, no adverse environmental effects are foreseen. Expected to be not readily bio-degradable. Bio-accumulative potential and ecotoxicity are not determined.

13. Disposal Considerations

Disposal must be in accordance with local and national legislation.

Do not allow to enter drains or watercourses. Material and container must be disposed as hazardous waste.

14. Transport Information

Proper shipping name:	Polyisocyanate mixture		
UN Number:	Not classified as hazardous for transport		
IMO Class :	Not classified as hazardous for transport		
IATA/ICAO Class:	Not classified as hazardous for transport		
ADR Class:	Not classified as hazardous for transport		
Subsidiary risk:	-		
Packing Group:	-		
Label(s):	-		
Additional Information			
ADR-HIN:	-		
IMDG-EMS:	-	Marine Pollutant:	Yes

15. Regulatory Information

EU Regulations:	The product is labeled as follows, in accordance with local regulations.
Hazard Symbol(s):	Xn
Contains:	Polyisocyanate
Risk Phrases:	R20 - Harmful by inhalation R36 - Irritating to eyes R38 - Irritating to skin
Safety Phrases:	S28 - After contact with skin, wash immediately with plenty of water S39 - Wear eye/face protection S61 - Avoid release to environment. Refer to special instructions/MSDS

16. Other Information

Issue no.:	1
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Issued by:	SpEC Technical Department

No liability accepted for any injury, loss, damage or cost arising directly or indirectly from the use of any information contained within this MSDS since the customers treatment of the product is necessarily out of our control.

The data given above is based upon current knowledge and experience. This safety sheet is intended to describe our products in terms of their safety requirements. It does not guarantee the properties of the products described.