

MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop MF Hardener

Product Use: Coatings

Company: Speciality Engineering Chemicals FZE

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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'-Methylenediphenyl-diisocyanate	Xn	101-68-8	R20-48/36/37/38/42/43	60 - 70
4,4'-diphenylmethane-diisocyanate	Xn	9016-87-9	R20/36/37/38/42/43	20 - 30

3. Hazards Identification

Harmful by inhalation
Irritating to eyes, respiratory system and skin
May cause sensitization by inhalation and skin contact



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:	Irrigate copious amount of water for at least 15 minutes under running water 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:	Immediately rinse mouth and drink plenty of water. Do not induce vomiting. Obtain medical attention if symptoms persist.

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 and chemical protective clothing.

6. Accidental Release Measures

Personal Precautions:	Wear gloves and other suitable protective clothing. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.
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 away from water. Segregate from fooda and animal feeds. Segregate from acids and bases.
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

Engineering Control Measures:	Use with adequate general and local exhaust ventilation
Personal Protective Equipment:	Impervious gloves, safety goggles, protective clothing.

9. Physical and Chemical Properties

State:	Liquid
Colour:	Yellowish
Odour:	Earthy, musty
Flash point:	200
Initial Boiling point:	>200

10. Stability and Reactivity

Stability:	Stable under normal conditions.
Conditions to avoid:	Temperature <15°C.
Materials to avoid:	Acids. Amines. Bases. Strong oxidizing agents. Copper and its alloys

11. Toxicological Information

Ecotoxicity:	No data is available on this product.
Corrosivity:	May cause irritation to eyes and skin. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Sensitization:	May cause sensitization by skin contact. and inhalation.

12. Ecological Information

No data is available.

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
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

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 R36/37/38 - Irritating to eyes, respiratory system and skin R42/43 - May cause sensitization by inhalation and skin contact R48/20 - Harmful; danger of serious damage to health by prolonged exposure through inhalation
Safety Phrases:	S23 - Do not breathe gas/fumes/vapours/spray. S24 - Avoid contact with skin. S37 - Wear suitable gloves. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) S63 - In case of accident by inhalation; remove casualty to fresh air and keep at rest.

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.