

MATERIAL SAFETY DATA SHEET

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

Product Name: SpECcoat PE145 Hardener

Product Use: Coating

Company: Speciality Engineering Chemicals FZE

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2. Composition / Information on Ingredients

Composition: Epoxy hardener and solvents.

Hazardous Ingredient(s)	Symbol	CAS No.	Risk Phrases	%
Isophorone diamine	C, Xn	2855-13-2	R34/R36/R43	<20
Toluene	T, F, Xn	108-88-3	R10/R51/R53	<60

3. Hazards Identification

H223 - Flammable material
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H401 - Toxic to aquatic life



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

Occupational Exposure Limits:	None assigned		
Substance	8 Hour TWA	STEL	Source/Other Information
Xylene, mixed isomers	435 mgm ⁻³	650 mgm ⁻³	EH 40
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:	Amber
Odour:	Solvent
Flash Point (°C):	60
Specific gravity:	0.90
Viscosity:	0.5
Solubility:	Insoluble

10. Stability and Reactivity

Stability:	Stable under recommended conditions.
Conditions to avoid:	Not known.
Materials to avoid:	Strong acids, alkalies and oxidising agents.
Hazardous Decomposition products:	Carbon monoxide. Irritant fumes.

11. Toxicological Information

There are no data available on the preparation itself. This has been assessed following the conventional method of the Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this product may be a skin sensitiser and irritant. Harmful by inhalation. Vapours may cause headaches, dizziness and central nervous systems depression.

LD50 oral, rat: 1030mg/kg

12. Ecological Information

Environmental Assessment: Contains volatile organic compounds.

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: Polyamines, liquid, corrosive, flammable

UN Number: 2734

IMO Class : 8

IATA/ICAO Class: 8

ADR Class: 8

Subsidiary risk: 3

Packing Group: II

Label(s):



Additional Information

ADR-HIN: 83

IMDG-EMS: F-E, S-C

Marine Pollutant: Yes

IMO: -

15. Regulatory Information

EU Regulations: The product is labeled as follows, in accordance with local regulations.

Hazard Symbol(s): C, F

Contains: Polyamine adduct

Risk Phrases:
R10 - Flammable
R20 - Harmful by inhalation
R21 - Harmful in contact with skin
R51 - Toxic to aquatic organisms

Safety Phrases:
S28 - After contact with skin, wash immediately with plenty of water
S36 - Wear suitable protective clothing
S38 - In case of insufficient ventilation, wear suitable respiratory equipment

EC Directives:
Dangerous Substance Directive, 67/548/EEC and adaptations.
Dangerous Preparations Directive, 88/379/EEC.
Safety Data Sheets Directive, 91/155/EEC.

Statutory Instruments: Chemicals (Hazard Information and Packaging) Regs. 1993 (SI 1746).
Control of Substances Hazardous to Health Regs. 1988 (SI 1657).

Health and Safety at Work, etc. Act 1974.
Environmental Protection Act 1990.
Highly Flammable Liquids & Liquefied Petroleum Gases Regs. 1972 (SI 917)

Codes of Practice: Waste Management. The Duty of Care.
Operational Provisions of the Road Traffic (Carriage of Dangerous Substances in packages, etc.) Regs 1986 (COP17)

Guidance Notes: Occupational skin diseases: health and safety precautions (EH26).
Storage of packaged dangerous substances[HS(G)71].
The storage of highly flammable liquids (CS 2).

The above publications are available from HMSO.

16. Other Information

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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.