

# MATERIAL SAFETY DATA SHEET

## A. Identification of the Substance / Preparation and of the Company Undertaking

Product Name: SpECcoat PE400 Hardener

Product Use: Coating

Company: Speciality Engineering Chemicals FZE

Address: P. O. Box 61347, Dubai, U.A.E.

Telephone: +971-4-8836662

Facsimile: +971-4-8837696

E-mail: info@spec.ae

Web site: www.spec.ws

## B. Composition / Information on Ingredients

Composition: Epoxy hardener, diluents and inorganic fillers mixture.

Hazardous Ingredient(s)	Symbol	CAS No.	Risk Phrases	%
Isophorone diamine	C, Xn	2855-13-2	R34/R36/R43	<20
Coal Tar	T	-	R22/R45	<20

## C. Hazards Identification

Corrosive  
May cause burns  
Toxic to aquatic organisms



## D. 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.

## E. Fire Fighting Measures

Suitable Extinguishing Media: CO<sub>2</sub> / Dry chemical powder. Do not use water jets.

Special Exposure Hazards: Toxic fumes.

Special Protective Equipment: Self - contained breathing apparatus.

## F. Accidental Release Measures

Personal Precautions: Wear gloves and other suitable protective clothing.

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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 waste.

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## G. Handling and Storage

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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 hazardous waste.

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## H. Exposure Controls / Personal Protection

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Occupational Exposure Limits: None assigned

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

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

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## I. Physical and Chemical Properties

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State: Liquid

Colour: Black

Odour: Pitch

Flash Point (°C): >150

SG/Bulk Density: 1.55

Solubility: Insoluble

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## J. Stability and Reactivity

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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.

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## K. Toxicological Information

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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. May produce allergic reactions. May cause damage to eyes.

LD50 oral, rat: 1030mg/kg

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## L. Ecological Information

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

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## M. Disposal Considerations

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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.

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## N. Transport Information

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Proper shipping name: Polyamines, liquid, corrosive, N.O.S.

UN Number: 2735

Class : 8

Subsidiary risk: -

Packing Group: I

Label(s):



Additional Information

ADR-HIN: 80

IMDG-EMS: F-A, S-B

Marine Pollutant: Yes

IMO: T11

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## O. Regulatory Information

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

Hazard Symbol(s): C, Xn

Contains: Polyamines

Risk Phrases: R34 - Causes burns  
R51 - Toxic to aquatic organisms  
R53 - May cause long term adverse effects in the aquatic environment

Safety Phrases: S25 - Avoid contact with eyes  
S37 - Wear suitable gloves  
S39 - Wear eye/face protection  
S61 - Avoid release to the environment. Refer to special instructions/MSDS

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## P. Other Information

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Issue no.: 2  
Issue date: 01-Jan-06  
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.

# MATERIAL SAFETY DATA SHEET

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## B. Composition / Information on Ingredients

Composition: Blend of epoxy resin and inorganic fillers.

Hazardous Ingredient(s)	Symbol	CAS No.	Risk Phrases	%
Bisphenol A epoxy resin	Xi, N	25068-38-6	R36/R38/R43	>90

## C. Hazards Identification

Environmentally hazardous.  
Irritating to eyes and skin.  
May cause sensitization by skin contact



## D. 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.

## E. Fire Fighting Measures

Suitable Extinguishing Media: CO<sub>2</sub> / Dry chemical powder. Do not use water jets.

Special Exposure Hazards: Toxic fumes.

Special Protective Equipment: Self - contained breathing apparatus.

## F. Accidental Release Measures

Personal Precautions: Wear gloves and other protective clothing including eye/face protection.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

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Decontamination Procedures: Soak-up with inert absorbent or contain and remove by best available means. Gather into containers. Dispose as waste.

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## G. Handling and Storage

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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.

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## H. Exposure Controls / Personal Protection

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Occupational Exposure Limits: None assigned

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

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

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## I. Physical and Chemical Properties

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State: Liquid

Colour: Clear

Odour: Faint

Flash Point (°C): >150

SG/Bulk Density: 1.15

Solubility: Insoluble

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## J. Stability and Reactivity

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Stability: Stable under recommended conditions.

Conditions to avoid: Not known.

Materials to avoid: Strong acids, alkalis and oxidising agents.

Hazardous Decomposition products: Carbon monoxide. Irritant fumes.

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## K. Toxicological Information

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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.

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## L. Ecological Information

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

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## M. Disposal Considerations

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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.

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## N. Transport Information

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Proper shipping name: Environmentally hazardous substance, liquid, N.O.S.

UN Number: 3082

Class : 9

Subsidiary risk: -

Packing Group: III

Label(s):



Additional Information

ADR-HIN: 90

IMDG-EMS: F-A, S-F

Marine Pollutant: Yes

IMO: T1

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## O. Regulatory Information

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

Hazard Symbol(s): Xi, N

Contains: Bisphenol-A epoxy resin

Risk Phrases: R36 - Irritating to eyes  
R38 - Irritating to skin  
R43 - May cause sensitisation by skin contact

Safety Phrases: S28 - After contact with skin, wash immediately with plenty of water  
S39 - Wear eye/face protection  
S61 - Avoid release to the environment. Refer to special instructions/MSDS

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## P. 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.