

SAFETY DATA SHEET

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

Product Name: SpECseal Primer 25 base Code:
 Product Use: Coating
 Company: Speciality Engineering Chemicals
 Address: P. O. Box 61347, Dubai, U.A.E.
 Telephone: +9714-8836662 Facsimile: +9714-8837696
 E-mail: info@spec.ae Web site: www.spec.ws

B. Composition / Information on Ingredients

Composition: Blend of polymer resins and solvents

Hazardous Ingredient(s)	Symbol	R Phrases	CAS No.	%
Bisphenol A epoxy resin	Xi, N	R36/38/43	25068-38-6	40 - 60
Cyclohexanone	F, Xn	R10/20	108-94-1	30 - 50

C. Hazards Identification

Flammable
 Environmentally hazardous
 May cause sensitisation by skin contact



D. First Aid Measures

Eyes: Rinse immediately with water for at least 15 minutes. Seek medical attention.

Skin contact: Remove contaminated clothing and wash with plenty of soap and water. Do not use solvents. Launder clothes before re-use.

Inhalation: Moved affected person to fresh air. If recovery not rapid, seek medical attention.

Ingestion: Only when conscious, rinse mouth with plenty of water and give plenty of water to drink (approx. 500ml).
 Keep patient at rest and obtain medical attention. Do not induce vomiting. In case of spontaneous vomiting, be sure that vomit can freely drain because of the danger of suffocation.

E. Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, foam or dry powder.

Unsuitable Extinguishing Media: High pressure water jet.

Exposure Hazards: In case of fire, possible formation of carbon monoxide, nitrogen oxide and traces of hydrogen cyanide.
 Do not release contaminated water into drains, soil or surface water.
 Take measures to retain water used for extinguishing.
 Dispose of contaminated water and soil according to local regulations.

Special Protective Equipment: Self-contained breathing apparatus

F. Accidental Release Measures

Personal Precautions:	Avoid ignition sources. Avoid direct contact with skin, eyes and clothing. Do not breathe vapour.
Environmental Precautions:	Prevent contamination of soil, drains and surface water.
Methods for Cleaning up:	Take up with wet absorbent, inert material and place in a suitable container. Do not seal. Keep damp in a safe ventilated area for several days before closing container for disposal.

G. Handling and Storage

Handling:	Ensure good ventilation and local exhaust. Avoid vapour formation and ignition sources. Do not eat, drink or smoke at work place.
Storage:	In the original container, tightly closed and dry at room temperature. Avoid direct sunlight. Keep away from food and drink.

H. Exposure Controls / Personal Protection

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.

I. Physical and Chemical Properties

State:	Liquid
Colour:	Clear
Odour:	Solvent
Flash Point (closed, °C):	>30°C
Viscosity:	1 poise
Solubility in Water:	insoluble
Specific gravity:	1.00

J. Stability and Reactivity

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.

K. 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. May produce allergic reactions. Harmful by inhalation. Vapours may cause headaches, dizziness and central nervous systems depression.

L. 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 biodegradable. Bio-accumulative potential and ecotoxicity are not determined.

M. 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.

N. Transport Information

Proper shipping name: Resin solution, flammable

UN Number: 1866

Class : 3

Subsidiary risk: -

Packing Group: III

Label(s):



Additional Information

ADR-HIN: 30

IMDG-EMS: F-E, S-E

Marine Pollutant: Yes

IMO:

O. Regulatory Information

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

Hazard Symbol(s): Xn, F

Contains: Bisphenol A epoxy resin

Risk Phrases: R10 - Flammable
R20 - Harmful by inhalation
R21 - Harmful incontact 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)

P. Other Information

Issue no.: 3
Issue date: 8-Oct-09
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

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

Product Name: SpECseal Primer 25 Hardener

Product Use: Coatings

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 and solvents.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Isophorone diamine	C, Xn	R34/R36/R43	2855-13-2	15 - 20
Cyclohexanone	F, Xn	R10/R20	108-94-1	30 - 50

C. Hazards Identification

Flammable. 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: CO₂ / 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.

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.

G. 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.

H. Exposure Controls / Personal Protection

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.

I. Physical and Chemical Properties

State: Liquid

Colour: Clear

Odour: Solvent

Flash Point (°C): >30

Specific Gravity: 0.95

Viscosity: 0.5

Solubility: Miscible

J. 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.

K. 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 sensitizer and irritant. Harmful by inhalation. Vapours may cause headaches, dizziness and central nervous systems depression.

LD50 oral, rat: 1030mg/kg

L. 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 biodegradable. Bio-accumulative potential and ecotoxicity are not determined.

M. 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.

N. Transport Information

Proper shipping name: Polyamines, liquid, corrosive, flammable

UN Number: 2734

Class : 8

Subsidiary risk: 3

Packing Group: III

Label(s):



Additional Information

ADR-HIN: 83

IMDG-EMS: F-E, S-C

Marine Pollutant: Yes

IMO: -

O. 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 incontact with skin
R51 - Toxic to aquatic organisms

Safety Phrases: S28 - After contact with skin, wash immediately with plenty of water
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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.

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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.