

MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop CPD Elastomeric Membrane Base

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: 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

C. Hazards Identification

Non-hazardous
Harmful if inhaled



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

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.

I. Physical and Chemical Properties

State: Liquid

Colour: Amber - Brown

Odour: Earthy

Flash Point (°C): >200

SG/Bulk Density: 1.05

Solubility: Insoluble

J. Stability and Reactivity

Stability: Stable under normal conditions. Polymerises at high temperature with CO₂ evolution

Conditions to avoid: Exothermic reactions with amines and alcohols. Reacts with water forming CO₂. risk of bursting in closed containers due to increase in pressure

K. Toxicological Information

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

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

L. 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.

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: Polyisocyanate mixture
UN Number: Not classified as hazardous for transport
Class : -
Subsidiary risk: -
Packing Group: -
Label(s): -

Additional Information

ADR-HIN: -
IMDG-EMS: - Marine Pollutant: No
IMO: -

O. 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

P. Other Information

Issue no.: 1
Issue date: 02-Feb-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: SpECTop CPD Elastomeric Membrane 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: Aromatic diamine, diluents and inorganic fillers mixture.

Hazardous Ingredient(s)	Symbol	CAS No.	Risk Phrases	%
6-Methyl-2,4-bis (Methylthio) phenylene-1,3-diamine 2-Methyl-4,6-bis (Methylthio) phenylene-1,3-diamine	Xi, N	106264-79-3	R22/43/50/53	30-50

C. Hazards Identification

Harmful if swallowed
May cause sensitization by skin contact
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: Give 500ml water to drink. Induce vomiting.

E. Fire Fighting Measures

Suitable Extinguishing Media: CO₂ / Dry chemical powder. Do not use water jets.

Special Protective Equipment: Self - contained breathing apparatus.

F. Accidental Release Measures

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

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: Various

Odour: Amine

Flash Point (°C): >120

SG/Bulk Density: 2.18

Solubility: Insoluble

J. Stability and Reactivity

Stability: Stable under recommended conditions.

Conditions to avoid: Not known.

Materials to avoid: Strong acids, alkalines and oxidising agents

K. Toxicological Information

Acute toxicity: LD50 oral, rat: >1505 mg/kg

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

L. Ecological Information

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: 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

O. Regulatory Information

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

Hazard Symbol(s): Xi, N

Contains: Aromatic Diamine

Risk Phrases: R36 - Irritating to eyes
R38 - Irritating to skin
R43 - May cause sensitization 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 environment. Refer to special instructions/MSDS

P. Other Information

Issue no.: 1
Issue date: 02-Feb-08
Issued by: SpEC Technical Department

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MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop CPD Finish Base
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: Polyol, diluents and inorganic fillers mixture.

Hazardous Ingredient(s)	Symbol	CAS No.	Risk Phrases	%
Branched polyalcohol	Xn	_____	R36/38/43	40-60

C. Hazards Identification

Non-hazardous
Harmful if inhaled



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 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:	Various
Odour:	Faint
Flash Point (°C):	>150
Specific Gravity:	1.70
Solubility:	Insoluble

J. Stability and Reactivity

Stability:	Stable under recommended conditions.
Conditions to avoid:	Not known
Materials to avoid:	Strong acids, alkalies and oxidising agents

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.
LD50 oral, rat: >2000 mg/kg

L. Ecological Information

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: Polyol blend

UN Number: Not classified as hazardous for transport

IMO Class : -

IATA/ICAO Class: -

ADR Class: -

Subsidiary risk: -

Packing Group: -

Label(s): -

Additional Information

ADR-HIN: -

IMDG-EMS: - Marine Pollutant: No

O. Regulatory Information

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

Hazard Symbol(s): Xn

Contains: Polyol

Risk Phrases: R22 - Harmful if swallowed
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

P. Other Information

Issue no.: 3

Issue date: 18-Oct-11

Issued by: SpEC Technical Department

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MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop CPD Finish 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: 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

C. Hazards Identification

Non-hazardous
Harmful if inhaled



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

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.

I. Physical and Chemical Properties

State: Liquid

Colour: Brown

Odour: Earthy

Flash Point (°C): >200

Specific Gravity: 1.24

Solubility: Insoluble

J. Stability and Reactivity

Stability: Stable under normal conditions. Polymerises at high temperature with CO₂ evolution

Conditions to avoid: Exothermic reactions with amines and alcohols. Reacts with water forming CO₂. risk of bursting in closed containers due to increase in pressure

K. Toxicological Information

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

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

L. 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.

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: Polyisocyanate mixture

UN Number: Not classified as hazardous for transport

IMO Class : -

IATA/ICAO Class: -

ADR Class: -

Subsidiary risk: -

Packing Group: -

Label(s): -

Additional Information

ADR-HIN: -

IMDG-EMS: - Marine Pollutant: No

O. 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

P. Other Information

Issue no.: 1

Issue date: 02-Feb-09

Issued by: SpEC Technical Department

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MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop CPD Primer SB Base

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: Blend of epoxy resin, solvents and inorganic fillers.

Hazardous Ingredient(s)	Symbol	CAS No.	Risk Phrases	%
Bisphenol A epoxy resin	Xi, N	25068-38-6	R36/R38/R43	40-60
Toluene	T, F, Xn	108-88-3	R10/R51/R53	5-10

C. Hazards Identification

Flammable
Environmentally hazardous
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:** 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

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.

I. Physical and Chemical Properties

State: Liquid

Colour: Clear

Odour: Solvent

Flash Point (°C): >60

Specific gravity: 0.98

Viscosity: 1.5

Solubility: Insoluble

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)

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.

P. Other Information

Issue no.: 1
Issue date: 16-Jul-09
Issued by: SpEC Technical Department

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

Product Name: SpECTop CPD Primer SB 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 and solvents.

Hazardous Ingredient(s)	Symbol	CAS No.	Risk Phrases	%
Isophorone diamine	C, Xn	2855-13-2	R34/R36/R43	15-20
Toluene	T, F, Xn	108-88-3	R10/R51/R53	5-10

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

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.

I. Physical and Chemical Properties

State: Liquid

Colour: Clear

Odour: Solvent

Flash Point (°C): >60

Specific Gravity: 0.98

Viscosity: 0.5

Solubility: Miscible

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. 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 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.

P. Other Information

Issue no.: 1
Issue date: 16-Jul-09
Issued by: SpEC Technical Department

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MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop CPD Primer SF base

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: 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	25-40
Glycidyl ether of C12-C14 alcohols	Xi, N	68609-97-2	R36/R38/R43/R51	3-20

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: 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 protective clothing including eye/face protection.

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 as 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: Light green

Odour: Faint

Flash Point (°C): >150

SG/Bulk Density: 1.83

Solubility: Insoluble

Viscosity: 1400 poise

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.

L. Ecological Information

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: 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

O. Regulatory Information

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

P. Other Information

Issue no.: 1
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Issued by: SpEC Technical Department

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MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop CPD Primer SF 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: Blend of epoxy hardener and diluents.

Hazardous Ingredient(s)	Symbol	CAS No.	Risk Phrases	%
Diaminodiphenylmethane	T, Xn	101-77-9	R39/R45/R51	40-60
Benzyl alcohol	Xn	100-51-6	R20/R22	40-60

C. Hazards Identification

Toxic
May cause cancer
Danger of irreversible effects through inhalation



TOXIC



Hazardous to the environment

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 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 hazardous 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:	Dark brown
Odour:	Amines
Flash Point (°C):	>150
SG/Bulk Density:	1.10
Solubility:	Insoluble

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 constituent(s) and considering toxicological data on similar preparations, this product may be a skin sensitizer and irritant. May produce allergic reactions. May cause damage to eyes.

LD50 oral, rat: 1030mg/kg

L. Ecological Information

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 water courses. Material and container must be disposed as hazardous waste.

N. Transport Information

Proper shipping name: Toxic liquid, organic, N.O.S.

UN Number: 2810

Class : 6

Subsidiary risk: 1

Packing Group: I

Label(s):



Additional Information

ADR-HIN: 68

IMDG-EMS: F-A, S-A

Marine Pollutant: Yes

IMO: T11

O. Regulatory Information

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

Hazard Symbol(s): T, Marine Pollutant

Contains: Aromatic Polyamines

Risk Phrases: R39 - Danger of very serious irreversible effects
R45 - May cause cancer
R51 - Toxic to aquatic organisms

Safety Phrases: S45 - Seek medical advice immediately in case of accident and feel unwell
S53 - Avoid exposure, obtain special instructions before use
S61 - Avoid release to the environment. Refer to special instructions/MSDS

P. Other Information

Issue no.: 1
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MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop CPD Linemarker Base

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: Polyacrylate resin in solvent naptha and inorganic fillers.

Hazardous Ingredient(s)	Symbol	CAS No.	Risk Phrases	%
Branched polyalchol	Xn	—————	R36/R38/R43	40-60
Solvent Naptha	Xn, F	64742-95-6	R10/20/21/22 R37/51/53	5-20

C. Hazards Identification

Flammable
Environmentally hazardous
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: CO₂ / Dry chemical powder. Do not use water jets.

Special Protective Equipment: Self - contained breathing apparatus.

F. Accidental Release Measures

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

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: Various

Odour: Aromatic

Flash Point (°C): >60

SG/Bulk Density: 1.14

Solubility: Insoluble

J. Stability and Reactivity

Stability: Stable under recommended conditions.

Conditions to avoid: Not known.

Materials to avoid: Not known.

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.
LD50 oral, rat: >2000 mg/kg

L. Ecological Information

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: I

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: Polyol resin solution

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)

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.

P. Other Information

Issue no.: 1
Issue date: 11-Apr-10
Issued by: SpEC Technical Department

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MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop CPD Linemarker 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: Polyisocyanate, diluents and inorganic fillers mixture.

Hazardous Ingredient(s)	Symbol	CAS No.	Risk Phrases	%
Hexamethylene-1,6 diisocyanate homopolymer	Xn	28182-81-2	R21/22/36/43	<90

C. Hazards Identification

Non-hazardous
Harmful if inhaled
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:** 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

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.

I. Physical and Chemical Properties

State: Liquid

Colour: Clear - Yellowish

Odour: Nearly odourless

Flash Point (°C): >140

SG/Bulk Density: 1.16

Solubility: Insoluble

J. Stability and Reactivity

Stability: Stable under normal conditions. Polymerises at high temperature with CO₂ evolution

Conditions to avoid: Exothermic reactions with amines and alcohols. Reacts with water forming CO₂. risk of bursting in closed containers due to increase in pressure

K. Toxicological Information

Acute toxicity: LD50 oral, rat: >5000mg/kg

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

L. 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.

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: Polyisocyanate mixture
UN Number: Not classified as hazardous for transport
Class : -
Subsidiary risk: -
Packing Group: -
Label(s): -

Additional Information

ADR-HIN: -
IMDG-EMS: - Marine Pollutant: -
IMO: -

O. 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

P. Other Information

Issue no.: 1
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