

MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop EU Base

Product Use: Flooring

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 | 80-90 |
| 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: Clear

Odour: Faint

Flash Point (°C): >150

SG/Bulk Density: 1.15

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.

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.: 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

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

Product Name: SpECTop EU Hardener

Product Use: Flooring

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 |
| Formaldehyde polymer solution | Xn, F | 25155-81-1 | R11/R20 | 2-4 |

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: 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: Grey

Odour: Amines

Flash Point (°C): >150

SG/Bulk Density: 1.00

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 sensitiser 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 watercourses. Material and container must be disposed as hazardous waste.

N. Transport Information

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

O. Regulatory Information

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

P. Other Information

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

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

Product Name: SpECTop EU Filler

Product Use: Flooring

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: Graded silica sands.

| Hazardous Ingredient(s) | Symbol | CAS No. | Risk Phrases | % |
|-------------------------|--------|------------|--------------|-------|
| Silica, Quartz | Xn | 14808-60-7 | R22 | 25-60 |

C. Hazards Identification

Harmful if swallowed.



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: Not flammable.

Special Exposure Hazards: None.

Special Protective Equipment: None.

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: Gather into containers. Avoid formation of dust in atmosphere. Residue may be flushed to the drains with large volume of water.

G. Handling and Storage

Handling: Avoid creating dust. Use eye/face protection. Ensure adequate ventilation.

Storage: Store in dry and cool area.

Decontamination Procedure: Gather into containers. Avoid formation of dust in atmosphere.

H. Exposure Controls / Personal Protection

Occupational Exposure Limits: None assigned

| Substance | 8 Hour TWA | STEL | Source/Other Information |
|--|---------------------|------|--------------------------|
| Silica, amorphous: total inhalable dust | 5 mgm ⁻³ | — | EH 40 |
| respirable dust | 3 mgm ⁻³ | | |

Engineering Control Measures: atmospheric levels of dust must be maintained within the Occupational exposure standard. Where mechanical methods are inadequate, appropriate personal protection equipment must be used.

Personal Protective Equipment: Impervious gloves, goggles, approved dust mask.

I. Physical and Chemical Properties

State: Solid - Powder

Colour: Various

Odour: -

Flash Point (°C): -

SG/Bulk Density: 1890 kg/m³

Solubility: Insoluble

J. Stability and Reactivity

Stability: Stable under recommended conditions.

Conditions to avoid: Exposure to air. Contamination with water.

Materials to avoid: None.

Hazardous Decomposition products: None.

K. Toxicological Information

May cause transient irritation to eyes

May cause irritation by inhalation and if swallowed.

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: Graded silica sands

UN Number: Not classified as hazardous for transport.

Class: -

Subsidiary risk: -

Packaging group: -

Label: -

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: Silica, Quartz

Risk Phrases: R22 - Harmful if swallowed
R36 - Irritating to eyes

Safety Phrases: S36 - Wear suitable protective clothing
S39 - Wear eye/face protection

P. Other Information

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.