

# MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop PU500 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.ae

## 2. 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

## 3. Hazards Identification

Non-hazardous  
Harmful if inhaled



## 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:** CO<sub>2</sub> / Dry chemical powder. Do not use water jets.

**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

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into containers. Dispose of as hazardous waste.

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## 7. 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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## 8. 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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## 9. Physical and Chemical Properties

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

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## 10. 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

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## 11. 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.  
LD50 oral, rat: >2000 mg/kg

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## 12. 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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## 13. 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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## 14. Transport Information

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Proper shipping name: Polyol blend  
UN Number: Not classified as hazardous for transport  
IMO Class : Not classified as hazardous for transport  
IATA/ICAO Class: Not classified as hazardous for transport  
ADR Class: Not classified as hazardous for transport  
Subsidiary risk: -  
Packing Group: -  
Label(s): -

### Additional Information

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

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## 15. Regulatory Information

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**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

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## 16. Other Information

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Issue no.: 3  
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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

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

Product Name: SpECTop PU500 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.ae

## 2. 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

## 3. Hazards Identification

Non-hazardous  
Harmful if inhaled



## 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: CO<sub>2</sub> / 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.

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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 hazardous waste.

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## 7. 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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## 8. Exposure Controls / Personal Protection

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NOHSC 1003 (1995) Exposure Standard: Isocyanate 0.02mg/m<sup>3</sup> TWA, 0.07mg/m<sup>3</sup> STEL (as NCO)

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

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

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## 9. Physical and Chemical Properties

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State: Liquid

Colour: Brown

Odour: Earthy

Flash Point (°C): >200

Specific Gravity: 1.24

Solubility: Insoluble

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## 10. Stability and Reactivity

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Stability: Stable under normal conditions. Polymerises at high temperature with CO<sub>2</sub> evolution

Conditions to avoid: Exothermic reactions with amines and alcohols. Reacts with water forming CO<sub>2</sub>. risk of bursting in closed containers due to increase in pressure

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## 11. Toxicological Information

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

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

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## 12. Ecological Information

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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.

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## 13. 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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## 14. Transport Information

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Proper shipping name: Polyisocyanate mixture  
UN Number: Not classified as hazardous for transport  
IMO Class : Not classified as hazardous for transport  
IATA/ICAO Class: Not classified as hazardous for transport  
ADR Class: Not classified as hazardous for transport  
Subsidiary risk: -  
Packing Group: -  
Label(s): -

### Additional Information

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

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## 15. Regulatory Information

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**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

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## 16. Other Information

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Issue date: 23-May-2012  
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.