

# MATERIAL SAFETY DATA SHEET

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

Product Name: SpECTop UV 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: CO<sub>2</sub> / 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: 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 UV 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:** 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.

---

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/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.

---

## 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 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

---

## 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  
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.