

SAFETY DATA SHEET

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

Product Name: SpECloc PE Hardener
Company: Speciality Engineering Chemicals
Address: P. O. Box No. 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

Hazardous Ingredients:
Silica Sand: 70 – 90%
CAS: 14808-60-7
[Xn] R20
Silica Flour: 10 – 30%
[Xn] R20
Perkadox CH-50X: 10 – 10%
[O] R7; [Xi] R36; [Sens] R43
Contains: Dibenzoyl Peroxide

3. Hazards Identification

Main Hazards: Harmful by inhalation. May cause sensitization by skin contact.

4. First Aid Measures

SYMPTOMS

Skin: There may be irritation and redness at the site of contact.
Eyes: There may be irritation and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

ACTION

Skin: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
Eyes: Bathe the eyes with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give a half litre of water to drink immediately. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. Fire Fighting Measures

Extinguishing Media:	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
Exposure hazards:	In combustion emits toxic fumes.
Protection of Fire Fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

Personal Precautions:	Refer to section H of SDS for personal protection details. If outside do not approach from downwind. If outside keep by standers upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorized personnel.
Environmental Precautions:	Do not discharge into drains or rivers.
Clean-up Procedures:	Transfer to closable, labeled salvage container for disposal by an appropriate method.

7. Handling and Storage

Handling:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air.
Storage:	Store in cool, well ventilated area. Keep container tightly closed.

8. Exposure Controls / Personal Protection

Hazardous Ingredients Silica Sand:	WEL (8hr TWA) 0.3 mg/m ³
Silica Flour:	WEL (8hr TWA) 0.3 mg/m ³
Engineering Measures:	Ensure there is sufficient ventilation of the area.
Respiratory Protection:	Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.
Hand:	Protective gloves.
Eyes:	Safety glasses. Ensure eye bath is to hand.
Skin:	Protective clothing.

9. Physical and Chemical Properties

State:	Solid
Color:	Off-white
Solubility in Water:	Slightly soluble
Relative Density:	2

10. Stability and Reactivity

Stability:	Stable under normal conditions.
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Conditions to Avoid: Heat

Materials to Avoid: Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products: In combustion emits toxic fumes.

11. Toxicological Information

Chronic Toxicity: May cause sensitization by skin contact.

Routes of Exposure: Refer to section D of SDS for routes of exposure and corresponding symptoms.

12. Ecological Information

Persistence and Degradability: No data available.

Bio-accumulative Potential: No data available.

Other Adverse Effects: No data available.

13. Disposal Considerations

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport Information

ADR/RID
UN No.: Not classified

IMDG/IMO
UN No.: Not classified

IATA/ICAO
UN No.: Not classified

15. Regulatory Information

Hazard Symbols: Harmful

Risk Phrases: R20 – Harmful by inhalation
R43 – May cause sensitization by skin contact.

Safety Phrases: S24 – Avoid contact with skin.
S37 – Wear suitable gloves

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other Information

Risk Phrases used in S.B:

- R20 - Harmful by inhalation.
- R7 - May cause fire.
- R36 - Irritating to eyes.
- R43 - May cause sensitization by skin contact.

Legal Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET

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Product Name: SpECloc PE Resin
Company: Speciality Engineering Chemicals
Address: P. O. Box No. 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

Hazardous Ingredients: Styrene >90%
EINECS - 202-851-5
CAS - 100-42-5
[-] R10; [Xn] R20; [Xi] R36/38

3. Hazards Identification

Main Hazards: Flammable. Harmful by inhalation. Irritating to eyes and skin.
Other Hazards: In use, may form flammable / explosive vapour-air mixture.

4. First Aid Measures

SYMPTOMS

Skin: There may be irritation and redness at the site of contact.
Eyes: There may be irritation and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

ACTION

Skin: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
Eyes: Bathe the eyes with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give a half litre of water to drink immediately. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. Fire Fighting Measures

Extinguishing Media: Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

Exposure Hazards: Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.

Protection of Fire Fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

Personal Precautions: Refer to section H of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to un-authorized personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

Environmental Precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up Procedures: Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

7. Handling and Storage

Handling: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mist in the air. Smoking is forbidden. Use non-sparking tools.

Storage: Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

8. Exposure Controls / Personal Protection

Workplace Exposure Limits
WEL (8hr TWA): 430 MG/M3
WEL (15 min STEL): 1080 MG/M3

Hazardous Ingredients: Styrene
WEL (8 hr TWA) - 430 mg/m3 WEL (15 min STEL) - 1080 mg/m3

Engineering Measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment is not a source of ignition.

Respiratory Protection: Self-contained breathing apparatus must be available in case of emergency.

Hand Protection: Impermeable gloves.

Eyes: Safety glasses. Ensure eyes bath is to hand.

Skin: Impermeable protective clothing.

9. Physical and Chemical Properties

State: Liquid

Odour: Styrene

Boiling Point/range °C: 145

Flash Point °C: 30

Auto-flammability °C: 490

Relative Density: .91

10. Stability and Reactivity

Stability: Stable under normal conditions. Stable at room temperature.

Conditions to Avoid: Heat. Hot surfaces. Sources of ignition. Flames.

Materials to Avoid: Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products: In combustion emits toxic fumes.

11. Toxicological Information

Hazardous Ingredients: Styrene
IVN MUS LD50 90 mg/kg
ORL MUS LD50 316 mg/kg
ORL RAT LD50 2650 mg/kg

Routes of exposure: Refer to section D of SDS for routes of exposure and corresponding symptoms.

12. Ecological Information

Mobility: Not determined

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Other Adverse Effects: No data available

13. Disposal Considerations

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport Information

ADR/RID
UN No.: 1866

Packing Group: III

Shipping Name: Resin Solution (Styrene)

Labeling: 3

ADR Class: 3

Classification Code: F1

Hazard ID No.: 30

IMDG/IMO
UN No.: 1866

Packing Group: III

Marine Pollutant: N/A

Class: 3

EmS:	F-E, F-E*
Labeling:	3
IATA/ICAO UN No.:	1866
Packing Group:	III
Packing Instruction:	309(P&CA); 310 (CAO)
Labeling:	3
Class:	3

15. Regulatory Information

Hazard Symbols:	Harmful
Risk Phrases:	R10 - Flammable R20 - Harmful by inhalation R36/38 - Irritating to eyes and skin
Safety Phrases:	S16 - Keep away from sources of ignition - no smoking S23 - Do not breathe S24/25 - Avoid contact with skin and eyes S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
Note:	The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other Information

Risk Phrases used in S.B:	R10 - Flammable R20 - Harmful by inhalation R36/38 - Irritating to eyes and skin
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