

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: **DYNASET RESIN**
 Application: Base resin component of two part polyester resin grout
 Company: **SCL (Trinidad) Limited**
 Address: LP #45 Saddle Road, San Juan, Trinidad W.I.
 Telephone: 1 (868) 675-5555 Fax: 1 (868) 638-6302

2: COMPOSITION/INFORMATION ON INGREDIENTS

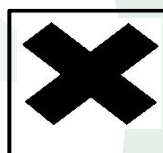
Composition: Polyester resin containing styrene

| Hazardous Ingredient(s) | Symbol | Risk Phrases | Other Information | % |
|-------------------------|--------|----------------|---|---------|
| styrene | Xn | R10, 20, 36/38 | Cas No: 100-42-5 Cas No: Cas No: Cas No: | >25 <50 |

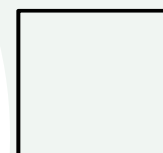
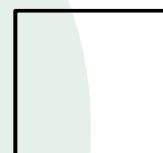
All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt.
 Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

R10: Flammable.
 R20: Harmful by inhalation.
 R36/38: Irritating to eyes and skin.



HARMFUL



4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes Obtain medical attention urgently.
 Skin: Wash immediately with soap and water or suitable skin cleanser. Remove contaminated clothing immediately.
 Inhalation: Remove from exposure, rest and keep warm and obtain medical attention urgently.
 Ingestion: Wash out mouth with water. Do NOT induce vomiting. Obtain medical attention. Beware of aspiration if vomiting occurs.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water fog - Do not use water jets
 Special Exposure Hazards: Toxic fumes. For further information see Section 10
 Special Protective Equipment: Self-contained breathing apparatus

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Immediately issue NO SMOKING and NO NAKED FLAMES warnings. Wear self contained breathing apparatus and 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. Prior consent must be obtained from the local Water Company if discharged to sewer.

7: HANDLING AND STORAGE

Handling: Do not use near sources of ignition. Avoid breathing fumes. Avoid skin and eye contact. In case of insufficient ventilation, wear suitable respiratory equipment.
 Storage: Store in a cool place away from sources of heat and out of direct sunlight to avoid pressure build up. Store in conformity with local fire regulations.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:-

| Substance | 8 Hour TWA | STEL | Source/Other Information |
|-----------|---------------|---------------|--------------------------|
| styrene | 100 ppm (MEL) | 250 ppm (MEL) | EH40 |

Engineering Control Measures: Use only in well ventilated areas. Ensure adequate ventilation, especially in confined areas.
 Personal Protective Equipment: In case of insufficient ventilation wear suitable respiratory equipment. (Class 1 respirator CE marked to EN 140, with EN 141/143 Type A1 filter.) Impervious gloves (eg nitrile or neoprene). Safety glasses (Conforming to EN 166).

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
 Colour: Purple / Red
 Odour: Pungent, characteristic of styrene.
 pH(concentrate):
 pH(working dilution):
 Boiling Point/Range (°C): 145°C
 Melting Point/Range (°C):
 Flash Point (closed, °C): 29°C
 Autoflammability (°C): 490°C
 Viscosity (at 20°C):
 Explosive Properties (%): Lower explosive limit (LEL): 1.1%, Upper explosive limit (UEL): 6.1%
 Oxidising Properties: Not applicable
 Vapour Pressure (kPa at 20°C): Not determined
 Relative Density (at 20°C): 1.1
 Water Solubility: Insoluble
 Fat Solubility:
 Partition Coefficient (n-octanol/water):
 Other data:

10: STABILITY AND REACTIVITY

Stability: Stable if used as directed.
 Conditions to Avoid: Temperatures (°C) above 35°C. Direct sunlight.
 Materials to Avoid: Strong oxidising agents. Strong acids. Strong alkalis
 Hazardous Decomposition Products: Thermal decomposition:- Toxic fumes. Carbon monoxide.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components. Oral LD50, rat 5000mg/kg. Classified as an eye and skin irritant.

Health Effects

- On Eyes: Irritating and may injure eye tissue if not removed promptly. Vapour may cause irritation.
- On Skin: Irritation. Defats the skin.
- By Inhalation: Harmful by inhalation. Vapours may cause headaches, dizziness and central nervous system depression.
- By Ingestion: Severe irritation and symptoms similar to inhalation.
- Chronic: Repeated and prolonged skin contact may lead to skin disorders
- Other:

12: ECOLOGICAL INFORMATION

- Environmental Assessment: May cause significant ecological damage in aquatic systems and must be used and disposed of in accordance with the recommendations made in this safety data sheet
- Mobility: Volatile. Insoluble in water
- Persistence and Degradability: Not known. Expected to be not readily biodegradable.
- Bioaccumulative Potential: Not known.
- Ecotoxicity: Expected to be ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

- Disposal must be in accordance with local and national legislation.
- Unused Product: Dispose of as special waste. Dispose of through an authorised waste contractor to a licensed site.
- Used/Contaminated Product: Dispose of through an authorised waste contractor to a licensed site.
- Packaging: Contains flammable residues, do not crush or incinerate. Must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

- UN Number: 1866
- IMO: Class: 3 Packing Group: III Marine Pollutant: Yes
- IATA/ICAO: Class: 3 Packing Group: III
- ADR: Class: 3 Item: 31(c)
- Transport Name: Resin Solution
- Hazchem/Kemler Code: 3[Y] / 30

15: REGULATORY INFORMATION

Hazard Label Data:-

- Named Ingredients: Styrene
- UN Number: 1866
- Symbol(s): Xn
- Risk Phrases: R10: Flammable.
R20: Harmful by inhalation.
R36/38: Irritating to eyes and skin.
- Safety Phrases: S23: Do not breathe vapour/spray
- EC Directives: Safety Data Sheets Directive, 91/155/EEC.
Dangerous Preparations Directive, 88/379/EEC.
Framework Waste Directive, 91/156/EEC

- Statutory Instruments:** Highly Flammable Liquids & Liquefied Petroleum Gases Regs. 1972 (SI 917)
The Special Waste Regulations 1996 (SI 972)
Consumer Protection Act 1987
Control of Substances Hazardous to Health Regs. 1999 (SI 3246)
Environmental Protection Act 1990
Environmental Protection (Duty of Care) Regs. 1991 (SI 2839)
- Codes of Practice:** Classification and labelling of dangerous substances for carriage by road in tankers, tank containers & packages (L14)
Waste Management. The Duty of Care
- Guidance Notes:** The storage of highly flammable liquids (CS 2)
Occupational skin diseases: health and safety precautions (EH 26)
Occupational exposure limits (EH 40)

The above publications are available from HMSO

16: OTHER INFORMATION

Also refer to the Safety Data Sheet(s) for information on other components of this product.

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Fosroc Ltd.

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from Fosroc Limited.

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SDS Reference: P25