

Doc. : G2

1. Chemical Product and Company Identification

Product Name : *Flowcoat resin*

Company: ABL (STEVENS) Resin & Glass
Unit 4, Millbuck Way
Springvale industrial Estate,
Sandbach, Cheshire, CW11 3HT.
Tel: 01270 766685

Emergency telephone number : Emergency phone: +31(0)38.456.9289

2. Composition / information on ingredients

Substance/preparation : Preparation of dissolved polymer(s)

Chemical Name	CAS No.	%	EC Number	Symbol	R Phrases
Styrene	100-42-5	12.5-60	202-851-5	Xn	R10, R20, R36/38

3. Hazards Identification

Human health hazards : Flammable. Harmful by inhalation. Irritating to eyes and skin.

Effects and symptoms

- **Inhalation** : Coughing, headache, dizziness, drowsiness, unconsciousness, nausea and vomiting.
- **Ingestion** : Sore throat, stomach-ache, headache, dizziness, vomiting, dullness.
- **Skin Contact** : Dry skin, redness.
- **Eye Contact** : Pain, redness.

4. First-Aid Measures

First-Aid measures

- **Inhalation** : Move to fresh air, rest, half upright position, loosen clothing. Artificial respiration in case of difficulty in breathing. Seek medical advice after significant exposure.
- **Ingestion** : DO NOT induce vomiting because of risk of aspiration. Rinse mouth with water. Seek medical advice.
- **Skin Contact** : Wash with plenty of soap and water immediately. Take all contaminated clothing off immediately. Seek medical advice if irritation develops.
- **Eye Contact** : Rinse immediately with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Always seek medical advice.

5. Fire Fighting Measures

Extinguishing Media

- Suitable : Powder, carbon dioxide, foam, watermist (only large amounts).

Hazardous thermal (de)composition products

: In case of fire toxic fumes might be formed.

Protection of fire-fighters

: Wear protective clothing and use self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions

: Put on adequate protective equipment. Do not breathe vapour.

Environmental Precautions and Clean-up Methods

: Keep away from drains, surface-water, ground-water and soil. Collect as much as possible in a clean container for disposal. Cover the remainder with inert absorbent. Disposal according to local regulations.

7. Handling and Storage

Handling

: Keep away from heat. Keep away from sources of ignition - No smoking. Do not breathe vapour. Avoid contact with skin and eyes. Take precautionary measures against static discharges.

Storage

: Keep in a cool, well ventilated place away from peroxides. Take precautionary measures against static discharges. The shelf life of styrene containing unsaturated polyesters will be significantly reduced when exposed to light. Store in dark in 100% light tight containers only.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name

styrene

TLV/PEL

EH40 (United Kingdom (UK), 2000).

TWA: 430 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

STEL: 1080 mg/m³ 15 minute(s).

STEL: 250 ppm 15 minute(s).

EH40-MEL (United Kingdom (UK), 2002). Notes: MEL

TWA: 100 ppm 8 hour(s).

TWA: 430 mg/m³ 8 hour(s).

STEL: 250 ppm 15 minute(s).

STEL: 1080 mg/m³ 15 minute(s).

Ingredient Name

styrene

TLV/PEL

Arbeidsinspectie (Netherlands, 2000).

TGG 8 uur: 107 mg/m³ 8 hour(s).

Nationale MAC-lijst (Netherlands, 2001). Notes: Legal

TGG 8 uur: 107 mg/m³ 8 hour(s).

TGG 8 uur: 25 ppm 8 hour(s).

Personal Protective Equipment

- Respiratory system

: Never exceed the national Occupational Exposure Limit. Use local exhaust ventilation or handle in a ventilated enclosure. For greater protection a facepiece chemical cartridge respirator is recommended. (A3)

- Skin and body

: Chemical resistant protective suit. Chemicals resistant boots.

- Hands

: Gloves, Chemical resistant.(Butyl rubber; Polyvinyl alcohol)

- Eyes

: Safety glasses with side shields.

9. Physical and Chemical Properties

Physical State and Appearance

: Liquid. (Hazy liquid.)

Color

: Green.

Odor

: Characteristic.

Boiling Point

: The lowest known value is 145°C (293°F) (Styrene).

Melting Point

: May start to solidify at -31°C (-23.8°F) based on data for: Styrene.

Bulk Density (@ 23°C)

: 1.13 g/cm³

Vapor Density	: The highest known value is 3.6 (Air = 1) (Styrene).
Vapor Pressure	: The highest known value is 0.6 kPa (@ 20°C) (Styrene).
Solubility	: Insoluble in cold water.
Octanol/water partition coefficient	: Not available.
pH	: Not applicable.
Flash Points	: CLOSED CUP: 33°C (91.4°F)
Auto-Ignition Temperature	: The lowest known value is 490°C (914°F) (Styrene).
Explosion Limits in air	: The greatest known range is LOWER: 1.1% UPPER: 8% (Styrene)
Viscosity (@ 23°C)	: Dynamic: >300 mPa.s

10. Stability and Reactivity

Conditions to avoid / Materials to avoid	: Excessive heating. Protect against sunshine. Do not mix with peroxides.
Hazardous Decomposition Products	: None.

11. Toxicological Information

Acute Data (LD₅₀, LC₅₀) - Toxicity to Test Animals	: Not available.
---	------------------

12. Ecological Information

Mobility	: Not available.
Persistence/degradability	: Not available.
Bioaccumulative potential	: Not available.
Ecotoxicity	: Not available.

13. Disposal Considerations

Methods of disposal; Waste of residues; Contaminated packaging	: Controlled incineration. Emptied drums contain solvent vapours, hazardous in respect of fire, explosion and noxiousness. Disposal only to licensed drum reconditioners.
---	---

14. Transport Information

International transport regulations

- UN number : 1866

Land - Road/Railway

- Proper shipping name : RESIN SOLUTION, flammable
- ADR/RID Class : 3
- ADR/RID Item number : Not available.
- Packing Group : III
- Hazard Identification Number : 30-1866
- Remark : This class 3 material can be considered non hazardous in packagings up to 450 L. (Transported in accordance with note under E of marginal 2301)

ADR/RID label



Sea

- Proper shipping name : RESIN SOLUTION, flammable
- IMDG Class : 3
- IMDG Page number (GB) : Not available.
- Packing Group : III
- Medical First Aid Guide (MFAG) : Not available.
- Emergency Schedules (EmS) : 3-05

IMDG label



- Marine Pollutant : Not pollutant.

IATA label :

Air

- Proper shipping name : RESIN SOLUTION, flammable
- UN/ID Number : 1866
- IATA-DGR Class : 3



15. Regulatory Information

EU Regulations

- Contains : - Styrene
- Hazard symbol(s) :



- Risk Phrases : R10- Flammable.
R20- Harmful by inhalation.
R36/38- Irritating to eyes and skin.
- Safety Phrases : S23- Do not breathe vapour

16. Other Information

HISTORY

Date of printing : 18 Oct 2002.
Date of issue : 18 Oct 2002.
Date of Previous Issue : 3 Oct 2002.
Version : 1
Prepared by : CentralDataManagement
Conforms to 93/112/EC

Although data in this SDS are based on information of this moment and are believed reliable, we cannot assume any responsibility for the use thereof, nor do we accept any liability for loss or damages directly or indirectly caused by our product. The user is held to check the safety, quality and all other properties of this product prior to use.