

U-POL

PRODUCTS

PRODUCT SAFETY DATA SHEET

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COMMERCIAL PRODUCT NAME: FASTGLAS RESIN RANGE

PREPARATION: POLYESTER RESIN CONTAINING STYRENE

ADDRESS: Denington Industrial Estate,
Denington Road,
Wellingborough,
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United Kingdom

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COMPOSITION/INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS NO.</u>	<u>LEVEL</u>	<u>SYMBOL</u>	<u>RISK</u>
STYRENE	100-42-5	35 - 39%	Xn - Harmful.	R10 R20 R36/38

HAZARDS IDENTIFICATION

INHALATION: May cause drowsiness and irritation of respiratory tract.

SKIN: May cause irritation on prolonged contact, redness.

EYES: Irritation and soreness.

INGESTION: Sore throat, stomachache, nausea.

FIRST AID MEASURES

INHALATION: Move affected person to the fresh air without delay. If drowsiness persists seek medical attention.

SKIN CONTACT: Wash affected area with warm soapy water. Do not use solvents.

EYE CONTACT: Irrigate with copious quantities of water and seek medical attention immediately.

INGESTION: Do not induce vomiting, drink plenty of water and seek medical attention.

FIRE FIGHTING MEASURES

Fight fires with CO₂, dry powder, or chemical foam. Do not use water jets. Burning material emits toxic fumes and smoke, so avoid inhalation of burning products.

ACCIDENTAL RELEASE MEASURES

The product will readily flow. Contain and collect any spillage with sand or earth. Keep product away from drains. Avoid sources of ignition. Dispose of in accordance with the requirements of the Environmental Protection Act.

HANDLING AND STORAGE

HANDLING: Keep away from heat. Keep away from sources of ignition. Avoid contact with skin and eyes. Use only in well ventilated areas.

STORAGE: Store below 25°C in a dry well ventilated space in original closed containers.

EXPOSURE CONTROLS/PERSONAL PROTECTION *

A good standard of personal and industrial hygiene should be maintained at all times. Persons who suffer from skin complaints or other allergic effects should not work with the product.

OEL (UK)	Component	8 HR TWA MEL	15 mins STEL
	Styrene	100 ppm	250 ppm

EYE PROTECTION: Not necessary.

PROTECTIVE CLOTHING: Recommended.

RESPIRATORY PROTECTION: Not necessary.

SKIN PROTECTION: Barrier cream recommended.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Viscous yellow liquid.

ODOUR: Slightly pungent, characteristic of Styrene.

DENSITY: Approx. 1.1.

FLASH POINT: 32°C (Styrene).

AUTOFLAMMABILITY TEMPERATURE : 490°C (Styrene).

EXPLOSIVE LIMITS: Lower 1:1%. Upper 6.1% (Styrene).

VOLATILE CONTENT: 35 - 39%.

SOLUBILITY: Insoluble in water.

VISCOSITY: 700 - 1000 centipoise.

STABILITY AND REACTIVITY

Can polymerise (solidify) if subjected to elevated temperatures over a period of time, exposed to UV/sunlight, or by the addition of free radical initiators e.g., organic peroxide. Heat increase may be sufficient to raise the temperature above the product flash point. Thermal decomposition can give rise to acrid fumes. Polymerisation in a closed container can give rise to pressure which may rupture the vessel.

TOXICOLOGICAL INFORMATION *

For Styrene, the following values have been reported:-

An oral LD50 in rats of 5g/Kg.

LC50 in rats ranging between 2770 - 6000ppm.

Styrene odour is detectable at 0.1ppm. At 200-400ppm there is a transient irritant effect on nasal passages.

At 400-1000ppm increasing systematic effects such as dizziness, nausea and headache at 800ppm and over becomes intolerable to mucous membranes. At 10000ppm and over may cause death in less than one hour.

There is no evidence that Styrene is carcinogenic in humans.

ECOLOGICAL INFORMATION

Marine pollutant and non biodegradable.

Polyester resins are viscous liquids which lose solvents by evaporation or polymerisation, leaving a relatively inert residue which will not degrade significantly.

DISPOSAL CONSIDERATIONS

The uncured material and any contaminated container should be disposed of in accordance with the Environmental Protection Act.

TRANSPORT INFORMATION

SHIPPING NAME:	PAINT RELATED MATERIAL (for kits)	OR	POLYESTER RESIN KIT (for kits)	RESIN SOLUTIONS (for resin only)
UNITED NATION NO:	UN 1263		UN 3269	UN 1866
CLASS NO:	3.3.		3.3.	3.3.
HARMONISED SYSTEMS NO:	390791 10 0.		390791 10 0.	390791 10 0.
PACKING GROUP:	III.		III.	III.

Complies with The Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations.

For current International Maritime Dangerous Goods Declaration, please contact our Export Department
Telephone No: 44-(0)20 8492 5950.

REGULATORY INFORMATION

CONTAINS:	Styrene.
SYMBOL:	Xn Harmful.
RISK PHRASES:	R10 Flammable. R20 Harmful by inhalation. R36/38 Irritating to eyes and skin.
SAFETY PHRASES:	S2 Keep out of reach of children. S3 Keep in a cool place. S46 If swallowed seek medical advice immediately and show this container or label. S51 Use only in well ventilated areas

FURTHER INFORMATION

Under normal circumstances glassfibre laminates would not be sanded. However, if sanding is deemed to be necessary, then we recommend the wearing of a suitable dust mask (approved to FFP1SD - EN149), especially where mechanical means are used.

Reference should be made to the following official publications:-

EH40, EH42, EH44, COSHH Regulations, Environmental Protection Act, Toxicity Review Styrene.

ISSUE NUMBER: 0004
(*Denotes changes from previous issue)

ISSUE DATE: 28.11.01