



## SAFETY DATA SHEET POLYESTER RESIN

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

PRODUCT NAME POLYESTER RESIN  
PRODUCT NO. POR001, POR002, POR005, BLR005, BLR020, BLR010  
INTERNAL ID C  
APPLICATION Polyester resin.  
SUPPLIER TETROSYL LIMITED  
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### 2 HAZARDS IDENTIFICATION

Flammable Harmful by inhalation. Irritating to eyes and skin.

CLASSIFICATION (1999/45) Xn;R20. Xi;R36/38. R10.

HUMAN HEALTH

See section 11 for additional information on health hazards.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
STYRENE	202-851-5	100-42-5	30-60%	R10 Xn;R20 Xi;R36/38

The Full Text for all R-Phrases is Displayed in Section 16

### 4 FIRST-AID MEASURES

GENERAL INFORMATION

Remove affected person from source of contamination. Get medical attention immediately!

INHALATION

Move injured person into fresh air immediately. Call an ambulance. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Bring these instructions. Place unconscious person on the side in the recovery position and ensure breathing can take place.

INGESTION

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Consult a physician for specific advice. Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Immediately transport to hospital or eye specialist.

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### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

#### SPECIAL FIRE FIGHTING PROCEDURES

Beware, risk of formation of toxic and corrosive gases.

#### SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed.

#### PROTECTIVE MEASURES IN FIRE

Leave danger zone immediately.

### 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. In case of spills, beware of slippery floors and surfaces.

#### ENVIRONMENTAL PRECAUTIONS

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

#### SPILL CLEAN UP METHODS

For waste disposal, see section 13. When dealing with a spillage, please consult the section relating to suitable protective measures. Absorb spillage with non-combustible, absorbent material. Ventilate well. Prevent discharge of larger quantity to drain.

### 7 HANDLING AND STORAGE

#### USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Always remove grease with soap and water or skin cleaning agent, never use organic solvents. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product.

#### STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
STYRENE	WEL	100 ppm	430 mg/m <sup>3</sup>	250 ppm	1080 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

#### PROTECTIVE EQUIPMENT



#### PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

#### ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

#### RESPIRATORY EQUIPMENT

Wear suitable respiratory protection. Check that mask fits tight and change filter regularly.

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### HAND PROTECTION

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Protection against this substance requires special consideration.

### EYE PROTECTION

Wear tight-fitting goggles or face shield.

### OTHER PROTECTION

Provide eyewash station. AVOID ALL SKIN AND RESPIRATORY CONTACT!

### HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.

### SKIN PROTECTION

Protection suit must be worn.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous liquid.
COLOUR	Amber. Green.
ODOUR	Strong. Aromatic.
BOILING POINT (°C)	145
RELATIVE DENSITY	1.1 20°C
VAPOUR PRESSURE	<5 mm Hg 20°C
VOLATILE BY VOL. (%)	36 - 39
VISCOSITY	400 mPas 25°C
FLASH POINT (°C)	32 TCC (Tag closed cup).
AUTO IGNITION TEMPERATURE (°C)	490°C

## 10 STABILITY AND REACTIVITY

### STABILITY

No particular stability concerns.

### CONDITIONS TO AVOID

Avoid exposing to heat and contact with strong oxidising substances.

### MATERIALS TO AVOID

Organic peroxides/hydroperoxides. Strong oxidising substances.

## 11 TOXICOLOGICAL INFORMATION

### INHALATION

Harmful by inhalation.

### SKIN CONTACT

May cause skin irritation/eczema.

### HEALTH WARNINGS

This chemical can be hazardous when inhaled and/or touched. This chemical may cause skin/eye irritation and burns (corrosive). May cause severe internal injury. Vapour from this chemical can be hazardous when inhaled.

### ROUTE OF ENTRY

Inhalation. Ingestion. Skin and/or eye contact. Skin absorption.

## 12 ECOLOGICAL INFORMATION

LC 50, 96 Hrs, FISH mg/l 10-100

## 13 DISPOSAL CONSIDERATIONS

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### GENERAL INFORMATION

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Only experts should be permitted to carry out disposal of this material.

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

## 14 TRANSPORT INFORMATION

GENERAL Full protective clothing should be worn when handling this product.



PROPER SHIPPING NAME	RESIN SOLUTION
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	No.
UN NO. ROAD	1866
ADR CLASS NO.	3
ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III
HAZARD No. (ADR)	30
ADR LABEL NO.	3
HAZCHEM CODE	3Y
UN NO. SEA	1866
IMDG CLASS	3
IMDG PACK GR.	III
EMS	F-E, S-E
UN NO. AIR	1866
AIR CLASS	3
AIR PACK GR.	III

## 15 REGULATORY INFORMATION

### LABELLING



Harmful

CONTAINS STYRENE

### RISK PHRASES

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

### SAFETY PHRASES

S2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S24/25	Avoid contact with skin and eyes.

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S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37	Wear suitable gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.
S56	Dispose of this material and its container to hazardous or special waste collection point.
S64	If swallowed, rinse mouth with water (only if the person is conscious).
S43	In case of fire, use alcohol-resistant foam, carbon dioxide or dry powder. Never use water.

### EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

### 16 OTHER INFORMATION

#### REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision. Please see Application information in section 1 for important changes

#### ISSUED BY

Health & Safety Department

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REV. NO./REPL. SDS 5

GENERATED

SIGNATURE ms

#### RISK PHRASES IN FULL

R10 Flammable

R20 Harmful by inhalation.

R36/38 Irritating to eyes and skin.

### DISCLAIMER

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.