



## SECTION 1

## IDENTIFICATION

<b>Chemical Family</b>	Synthetic Resin
<b>Chemical Name:</b>	Unsaturated Polyester Resin
<b>Manufacturer</b>	Strongbonds Polyseal Pvt. Ltd
<b>Address</b>	P-26 C ; Block-D; Kalyani Industrial Estate Nadia - 741235 West Bengal; India.
<b>Telephone Number</b>	+91 033 2582 3061
<b>Fax Number</b>	+91 033 25832130
<b>Website</b>	<a href="http://www.strongbondspolyseal.com">www.strongbondspolyseal.com</a>
<b>Email</b>	<a href="mailto:strongbondpolyseal@gmail.com">strongbondpolyseal@gmail.com</a>

## SECTION 2

## COMPOSITION / INFORMATION ON INGREDIENTS

<b>Component</b>	<b>CAS No.</b>	<b>Proportion</b>	<b>Exposure Limit</b>
Unsaturated Polyester Resin	N.A.	60-70%	Not Assigned
Styrene Monomer	100-42-5	Remaining	50 ppm

## SECTION 3

## HAZARD IDENTIFICATION

<b>Classification of the Substance</b>	Class-3
<b>Acute Toxicity inhalation</b>	Category--4
<b>Main Hazards</b>	Styrine - Flammable

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## SECTION 4

## FIRST AID MEASURES

### Eye Contact

Flush with plenty of water for several minutes. Seek medical attention.

### Skin Contact

Category- CLASS 2  
Skin irritant - Wash contaminated skin thoroughly with soap and water. Immediately remove contaminated clothing.

### Inhalation

Inhalation of styrene vapour may cause irritation to nose, throat, and respiratory tract. Over exposure may damage nervous system. Move victim from exposure site to well ventilated area. Seek medical advice in case of developing breathing trouble.

### Ingestion

May cause irritation to the gastrointestinal track.  
Drink plenty of water. Seek medical attention. Do not induce vomiting.

## SECTION 5

## FIRE FIGHTING MEASURES

### Flammability

Styrene monomer, used as a solvent in UPR, is a highly flammable liquid.

### Flash Point

31°C

### Extinguishing Media

Dry powders, CO2 and Foam.  
Not to be used: Halones

### Explosion Hazards

Generally non-explosive in optimum condition. Prolonged storage in presence of heat & light may initiate self polymerization, which may cause sudden rupture of container. Emits acrid black smoke and irritating fumes when heated to decomposition.

## SECTION 6

## ACCEDENTAL RELEASE MEASURES

### Personal Protection

Avoid inhalation of styrene vapour. Wear protective clothing while cleaning spillages. Solvent-proof hand gloves for hand protection, masks for respiratory protection and eye goggles or face shield for eye protection.

### Environmental Precautions

Prevent spilled materials from contaminating the clean water body.

### Method of disposal

In case of material release, absorb it with suitable inert material and dispose the collected material as per WBPCB regulations.



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## Material Safety Datasheet

### SECTION 7

### HANDLING AND STORAGE

#### Handling & use

Open/ Unseal container slowly to avoid sudden exposure of styrene vapour. Since solvent used in it is highly volatile always keep the container tightly closed after each use. Don't inhale styrene vapour. Avoid direct skin contact. In case of insufficient ventilation at work place wear certified respiratory equipments.

#### Storage

Always store it in a cool ( bellow 25°C) dark and dry place, away from sunlight, heat, and any source of ignition. Prolonged exposure to heat or sunlight may cause self gelation. Resin has a short ( 3 Months) self life; don't keep unused over a long period of time.

### SECTION 8

### EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Eye Protection

Wear chemical goggles

#### Skin Protection

Wear protective clothing  
Wear protective gloves to prevent skin contact.

#### Respiratory Protection

Wear certified respirator

#### Environmental Exposure Control

Not available

### SECTION 9

### PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Viscous liquid

#### Odor

Aromatic styrene monomer

#### Specific gravity

1.1-1.2 @ 25°C

#### Boiling Point

Styrene ~145°C

#### Volatile Content

Max. 42%

#### Vapour pressure

Styrene : 4.5 mm Hg

#### Vapour Density

Styrene : 3.6 (Air = 1)

#### Flash Point

31°C

#### Percent Volatiles

30-40% by volume

#### Solubility in water

Negligible

#### In organic solvent

Acetone – Toluene - Methyl ethyl ketone.

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## SECTION 10

## STABILITY AND REACTIVITY

### Stability

Stable under optimum atmospheric pressure & temperature

### Reactivity

Non-reactive in absence of, heat, light, catalyst.

### Cause of instability

Heat, Light, Strong minerals acids and alkalis, peroxides, Strong oxidizing agents.

### Hazardous Decomposition Products

CO<sub>2</sub> , Styrene Vapour

## SECTION 11

## TOXICOLOGICAL INFORMATION

Styrene vapour is hazardous to human health. Prolonged exposure may cause permanent damage to the nervous system, kidneys & liver.

## SECTION 12

## ECOLOGICAL INFORMATION

### Degradation

Not biodegradable

## SECTION 13

## DISPOSAL CONSIDERATION

### Waste Disposal

Waste to be disposed as per WBPCB norms, precautions to be taken in handling and storing as well as disposing.  
To be disposed off by WBPCB approved vendor in a disposal area away from the habitat.

## SECTION 14

## TRANSPORTATION INFORMATION

### H.S.N. No.

39079120

### Shipping Name:

Resin solution

### UN NO:

1866

### IMDG Shipping Name

Resin solution

### Dangerous Goods Class

3

### Packing Group

III

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## Material Safety Datasheet

### SECTION 15

### REGULATORY INFORMATION

According to MSIHC rule 1989 most raw materials used to prepare this resin are hazardous chemicals.

### SECTION 16

### OTHER INFORMATION

Date of Issue

14/01/01

Revision date

08/10/18

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