
SECTION – 1: PRODUCT & COMPANY IDENTIFICATION

- 1.1 CHEMICAL NAME/SYNONYM : UNSATURATED POLYESTER RESIN SOLUTION IN STYRENE
- 1.2 BRAND / TRADE NAME : ISOTHOPHTHALATE RESIN MECHSTER 1110P
- 1.3 CHEMICAL COMPOSITION : Isophthalic acid based polyester resin solution in Styrene.
- 1.4 MANUFACTURER'S NAME AND ADDRESS : MECHEMCO RESINS PVT. LTD.
D-36/3, T.T.C INDUSTRIAL AREA, MIDC,
TURBHE, NAVI MUMBAI – 400 613.
INDIA.
- 1.5 EMERGENCY TELEPHONE NOS. : +91-22-27682720 / 27632153 / 27632154
FAX NO. : +91-22-27682721
E-MAIL ADDRESS : mechemcoresins@vsnl.net / mrpl@mtnl.net.in

SECTION – 2: INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT	WT%	CAS No.	EEC No.	TLV
Styrene	30 – 45%	100-42.5	601-026-00-0	100 ppm (8 hr reference period)

SECTION – 3: EMERGENCY FIRST AID PROCEDURES

- 3.1 EYE CONTACT : Flush eyes with copious amount of water for at least 15 minutes. Seek medical attention if irritation persists
- 3.2 SKIN CONTACT : Wash skin with water and soap. Seek medical attention if irritation persists
- 3.3 INHALATION : Move to fresh air. Restore or support breathing as required. Keep the person warm and at rest. Seek medical attention as soon as possible
- 3.4 INGESTION : If conscious, give large quantities of water and contact physician.

SECTION – 4: FIRE AND EXPLOSION DATA

- 4.1 THE PRODUCT IS Flammable liquid, Class IC.
- 4.2 AUTO IGNITION 490°C Styrene
TEMPERATURE
- 4.3 FLASH POINT 32°C Styrene
- 4.4 FLAMMABLE LOWER: 0.9%
LIMITS UPPER: 6.8% (Styrene)
- 4.5 PRODUCTS OF COMBUSTION May produce carbon monoxide, carbon dioxide, and irritating or toxic vapors, gases or particulate.
- 4.6 FIRE HAZARD Flammable in the presence of open flames, sparks, or heat.
- 4.7 EXPLOSION HAZARD Can react with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. Material may polymerize when container is exposed to heat (fire) and polymerization will increase pressure in a closed container which may cause the container to rupture violently.
- 4.8 FIRE FIGHTING MEDIA AND INSTRUCTIONS
SMALL FIRE: Use carbon dioxide, foam, dry chemical or water fog to extinguish.
LARGE FIRE: Evacuate surrounding areas. Use carbon dioxide, foam, dry chemical or water fog to extinguish. Wear self-contained breathing apparatus (SCBA) and full fire fighting protective clothing. Cool containing vessels with water spray in order to prevent pressure build-up, auto ignition or explosion. Prevent run off to sewers or other water ways.

SECTION – 5: ACCIDENTAL RELEASE MEASURES

- 5.1 SMALL SPILL Absorb with an inert material and place in an appropriate waste disposal container.
- 5.2 LARGE SPILL Stop leak if without risk. Eliminate all ignition sources. Contain with an inert material, recover as much as possible and place the remainder in an appropriate waste disposal container. Warn unauthorized personnel to move away. Prevent entry into sewers or confined areas.

SECTION – 6: STORAGE AND HANDLING INFORMATION

- 6.1 STORAGE Keep tightly closed in a dry, cool and well ventilated place. Protect against heat
- 6.2 HANDLING Protection against fire and explosion. Keep away from sources of ignition. "NO SMOKING"

SECTION – 7: EMPLOYEE PROTECTION / SPECIAL PROTECTION

- 7.1 RESPIRATORY PROTECTION : In case of insufficient ventilation wear suitable

7.2	VENTILATION	respiratory equipment
7.3	OTHER PROTECTIVE EQUIPMENT	: Mechanical ventilation and local exhaust
	a) Hands Protection	: PVC or other plastic material gloves
	b) Eye Protection	: Splash Proof Goggles / Face Shield
	c) Skin / Body Protection	: Chemical Resistant Apron, Protective Suit, Safety Shoes / Boots

SECTION – 8: PHYSICAL AND CHEMICAL PROPERTIES

8.1	PHYSICAL STATE	: Viscous Liquid
8.2	COLOUR	: Clear Colorless to Pale Yellow
8.3	MOLECULAR WEIGHT (d/mol)	: NA
8.4	MELTING POINT	: NA
8.5	VAPOR PRESSURE	: 4.5 mm Hg @ 20°C (Styrene)
8.6	ODOUR	: Styrene Odor (Aromatic)
8.7	EVAPORATION RATE	: Not available
8.8	WATER SOLUBILITY	: Insoluble in Water
8.9	pH (1% soln / water)	: Not applicable
8.10	BOILING POINT	: 145°C (Styrene)
8.11	SPECIFIC GRAVITY	: 1.07 – 1.13
8.12	VAPOR DENSITY	: 3.59 (Styrene)
8.13	WATER/OIL dist. coeff.	: NA
8.14	DISPERSION PROPERTIES	: Not dispersed in water.

SECTION – 9: STABILITY AND REACTIVITY DATA

9.1	STABILITY	This product is normally stable, but can become unstable at elevated temperatures.
9.2	INSTABILITY TEMPERATURE	77°C
9.3	CONDITIONS OF HEAT	Heat-up
9.4	INCOMPATIBILITY WITH VARIOUS SUBSTANCES	NA
9.5	CORROSIVITY	No specific information is available in our database regarding the corrosivity of this product in presence of various materials.



SECTION – 10: TOXICOLOGICAL INFORMATION

10.1	ROUTES OF ENTRY	Inhalation, Ingestion, Skin Contact, Eye contact.
10.2	TOXICITY TO ANIMALS	1) Styrene Lung effects have been observed in mouse studies following repeated exposures.

SECTION – 11: ECOLOGICAL INFORMATION

ECOTOXICITY Toxic to aquatic organisms. Should not be released to sewage system or other bodies of water at concentrations above limits established in regulations or permits.

SECTION – 12: TRANSPORT INFORMATION

12.1	DOT – SHIPPING DESCRIPTION	UN1866; RESIN SOLUTION; 3; III	 
12.2	TDG - SHIPPING DESCRIPTION	UN1866; RESIN SOLUTION; 3; III	
12.3	IATA/IMDG – SHIPPING DESCRIPTION	IATA: UN1866; RESIN SOLUTION; 3; III; Pkg. Inst.: Passenger – 309; CARGO – 310. IMDG: UN1866; RESIN SOLUTION; 3; III; FLASH POINT: 32°C; EMS No.: F-E, S-E	

SECTION – 13: REGULATORY INFORMATION

OTHER REGULATIONS This section does not reference all applicable regulatory compliance lists.
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
SARA 302 component(s): None.
SARA 313 component(s): Styrene (100ppm).



SECTION – 14: SPECIAL PRECAUTIONS

14.1	PRECAUTION ON HANDLING AND STORING	Flammable. Keep away from heat, sparks and open flame
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SECTION – 15: DISPOSAL INFORMATION

15.1	SPILL AND LEAK PROCEDURES	Soak up with inert adsorbent material. Shovel in to suitable container for disposal. After cleaning, flush away traces with water.
15.2	WASTE DISPOSAL METHOD	Incinerate or land-fill in accordance with local pollution regulation and ordinance.

SECTION – 16: OTHER INFORMATION

<p style="text-align: center;">NFPA (USA)</p> <p style="text-align: center;">Fire</p>  <p style="text-align: center;">Specific hazard</p>	<p style="text-align: center;">HMIS (USA)</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #00B0F0; color: white;">Health hazards</td> <td style="text-align: center; border: 1px solid black;">2</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">Fire hazard</td> <td style="text-align: center; border: 1px solid black;">3</td> </tr> <tr> <td style="background-color: #FFFF00;">Reactivity</td> <td style="text-align: center; border: 1px solid black;">2</td> </tr> <tr> <td style="background-color: #FFFFFF;">Personal protection</td> <td style="text-align: center; border: 1px solid black;">X</td> </tr> </table>	Health hazards	2	Fire hazard	3	Reactivity	2	Personal protection	X	<p style="text-align: center;">Protective Clothing</p> 
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