



**MATERIAL SAFETY DATA SHEET
(MECHSTER 5310P)
VINYL ESTER RESIN FOR PULTRUSION PROCESS**

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SECTION – 1: PRODUCT IDENTIFICATION

1.1 CHEMICAL NAME/SYNONYM	:UNSATURATED POLYESTER RESIN SOLUTION IN STYRENE
1.2 BRAND / TRADE NAME	:VINYL ESTER RESIN FOR PULTRUSION PROCESS MECHSTER 5310P
1.3 CHEMICAL COMPOSITION	:High molecular weight vinyl ester resin solution in Styrene.
1.4 MANUFACTURER'S NAME AND ADDRESS	:MECHEMCO INDUSTRIES Unit No. 27, Kewal Industrial Estate Senapati Bapat Marg, Lower Parel Mumbai 400 013. INDIA
1.5 EMERGENCY TELEPHONE NOS. FAX NO. E-MAIL ADDRESS	: +91-22-24966373/24966374/24951799 : +91-22-24945907 : mechemco@vsnl.com

SECTION – 2: HAZARDOUS INGREDIENTS

INGREDIENT	WT%	CAS No.	EEC No.	TLV
Styrene	35-45%	100-42.5	601-026-00-0	100 ppm (8 hr reference period)

SECTION – 3: PHYSICAL DATA

3.1 STATE	: Viscous Liquid
3.2 COLOUR	: Pale Yellow
3.3 ODOUR	: Styrene Odour
3.4 FLASH POINT	: 34°C (Styrene)
3.5 SPECIFIC GRAVITY	: 1.07
3.6 VISCOSITY at 30 °C	: 300-700 cP
3.7 WATER SOLUBILITY	: Insoluble in Water

SECTION – 4: STORAGE AND HANDLING INFORMATION

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



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SECTION – 5: HAZARDS IDENTIFICATION AND DATA

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| 5.1 | MOST IMPORTANT HAZARDS | : Flammable |
| 5.2 | FIRE & EXPLOSION HAZARD | : Dangerous fire hazard & moderate explosion hazard when vapour is exposed to flame |
| 5.3 | HAZARD DATA | : Harmful by inhalation, irritation to eyes & skin |
| | a. Threshold Limit Value | : 100 ppm (8 hours reference period) |
| | b. Effects of Over Exposure | : May cause skin and eye irritation |

SECTION – 6: FIRE FIGHTING MEASURES

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| 6.1 | Extinguishing Media | : Standard procedures for Chemical fire, use dry powder, sand, foam. Cool the containers / tanks with water spray |
| 6.2 | Special Notes | : May form toxic materials, viz., Carbon Dioxide, Carbon Monoxide and various hydrocarbons while burning. Recommended to Wear self contained breathing apparatus while fighting fire |

SECTION – 7: STABILITY AND REACTIVITY DATA

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| 7.1 | STABILITY | : Store below 30 °C in closed original Containers. Store in dark, away from Oxidising Materials |
| 7.2 | CONDITIONS TO AVOID | : Excess heating or cooling over long time, exposure to sunlight, mixing with strong oxides |
| 7.3 | HAZARDOUS DECOMPOSITION PRODUCTS | : None under normal use. Thermal decomposition can lead to release of irritating gases and vapours |
| 7.4 | HAZARDOUS POLYMERIZATION | : May occur |

SECTION – 8: TOXICOLOGICAL INFORMATION

No information available



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SECTION – 9: EMERGENCY FIRST AID PROCEDURES

- 9.1 EYE CONTACT : Flush eyes with copious amount of water for at least 15 minutes. Seek medical attention if irritation persists
- 9.2 SKIN CONTACT : Wash skin with water and soap. Seek medical attention if irritation persists
- 9.3 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
- 9.4 INGESTION : If conscious, give large quantities of water and contact physician

SECTION – 10: EMPLOYEE PROTECTION / SPECIAL PROTECTION

- 10.1 RESPIRATORY PROTECTION : In case of insufficient ventilation wear suitable respiratory equipment
- 10.2 VENTILATION : Mechanical ventilation and local exhaust
- 10.3 OTHER PROTECTIVE EQUIPMENT
- 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 – 11: DISPOSAL INFORMATION / ENVIRONMENT PROTECTION

- 11.1 SPILL AND LEAK PROCEDURES : Soak up with inert adsorbent material. Shovel in to suitable container for disposal. After cleaning, flush away traces with water.
- 11.2 WASTE DISPOSAL METHOD : Incinerate or land-fill in accordance with local pollution regulation and ordinance.
- 11.3 ENVIRONMENTAL HAZARDS : Non specified

SECTION – 12: ECOLOGICAL INFORMATION

- 12.1 GENERAL INFORMATION : Marine Pollutant
- 12.2 DISPOSAL METHODS : Refer to SECTION 11 for safe disposal



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SECTION – 13: REGULATORY INFORMATION

13.1	OSHA REGULATION	100 ppm for Styrene (As per Section 2)
13.2	ACGIH	50 ppm for short term exposure limit for Styrene
13.4	SAFETY PRECAUTIONS	Refer to Section 4 and Section 8

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: TRANSPORT INFORMATION

15.1	MARINE POLLUTANT	: Yes
15.2	CLASS	: 3
15.3	UN NO.	: 1866
15.4	PROPER SHIPPING NAME	: Resin Solution