



**MATERIAL SAFETY DATA SHEET  
(MECHSTER 5310W)  
BISPHENOL EPOXY BASED VINYL ESTER RESIN FOR  
FILAMENT WINDING**

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**SECTION – 1: PRODUCT IDENTIFICATION**

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- 1.1 CHEMICAL NAME/SYNONYM : UNSATURATED POLYESTER RESIN SOLUTION IN STYRENE
- 1.2 BRAND / TRADE NAME :BISPHENOL EPOXY BASED VINYL ESTER RESIN FOR FILAMENT WINDING MECHSTER 5310W
- 1.3 CHEMICAL COMPOSITION : Bisphenol A epoxy based vinylester 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. : +91-22-24966373/24966374/24951799  
FAX NO. : +91-22-24945907  
E-MAIL ADDRESS : mechemco@vsnl.com

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**SECTION – 2: HAZARDOUS INGREDIENTS**

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

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**SECTION – 3: PHYSICAL DATA**

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- 3.1 STATE : Viscous Liquid
- 3.2 COLOUR : Clear Amber
- 3.3 ODOUR : Styrene Odour
- 3.4 FLASH POINT : 34°C (Styrene)
- 3.5 SPECIFIC GRAVITY : 1.05
- 3.6 VISCOSITY at 30 °C : 350-550 cp
- 3.7 WATER SOLUBILITY : Insoluble in Water

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**SECTION – 4: STORAGE AND HANDLING INFORMATION**

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- 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
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**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
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**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
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**SECTION – 8: TOXICOLOGICAL INFORMATION**

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No information available



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**SECTION – 9: EMERGENCY FIRST AID PROCEDURES**

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- 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

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**SECTION – 10: EMPLOYEE PROTECTION / SPECIAL PROTECTION**

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- 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

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**SECTION – 11: DISPOSAL INFORMATION / ENVIRONMENT PROTECTION**

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- 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

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**SECTION – 12: ECOLOGICAL INFORMATION**

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- 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

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**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