



MATERIAL SAFETY DATA SHEET
MECHSTER™ 9000S(PC)
ORTHOPHTHALATE RESIN FOR POLYMER CONCRETE

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SECTION – 1: PRODUCT IDENTIFICATION

1.1	CHEMICAL NAME/SYNONYM	:UNSATURATED POLYESTER RESIN SOLUTION IN STYRENE
1.2	BRAND / TRADE NAME	:ORTHOPHTHALATE RESIN FOR POLYMER CONCRETE MECHSTER™ 9000S(PC)
1.3	CHEMICAL COMPOSITION	: Unsaturated Polyester 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

SECTION – 2: 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: PHYSICAL DATA

3.1	STATE	: Viscous Liquid
3.2	COLOUR	: Clear Pale Yellow
3.3	ODOUR	: Styrene Odour
3.4	FLASH POINT	: 34°C (Styrene)
3.5	SPECIFIC GRAVITY	: 1.12
3.6	VISCOSITY at 30 °C	: 300-500 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

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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 |

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 |

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 |

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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Commitment to Quality and Consistency

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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