

MATERIAL SAFETY DATA SHEET MECHSTER[™] 9000S(CM)

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1.1 CHEMICAL NAME/SYNONYM : UNSATURATED POLYESTER RESIN

SOLUTION IN STYRENE

1.2 BRAND / TRADE NAME : ORTHOPHTHALATE RESIN

MECHSTER 9000S(CM)

1.3 CHEMICAL COMPOSITION : Orthophthalic acid based 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

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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 34°C Styrene



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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

Protection against fire and explosion. Keep away from sources of 6.2 HANDLING

ignition. "NO SMOKING"

SECTION - 7: EMPLOYEE PROTECTION / SPECIAL PROTECTION

RESPIRATORY PROTECTION : In case of insufficient ventilation wear suitable

respiratory equipment

7.2 **VENTILATION** : Mechanical ventilation and local exhaust

OTHER PROTECTIVE 7.3 **EQUIPMENT**



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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 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 8.10 8.11 8.12 8.13	PHYSICAL STATE COLOUR MOLECULAR WEIGHT (d/mol) MELTING POINT VAPOR PRESSURE ODOUR EVAPORATION RATE WATER SOLUBILITY pH (1% Solution / water) BOILING POINT SPECIFIC GRAVITY VAPOR DENSITY WATER/OIL dist. coeff.	Viscous Liquid Clear Pale Yellow 1000 to 15000 Not available 4.5 mm Hg @ 20°C (Styrene) Styrene Odor (Aromatic) Not available Insoluble in Water Not applicable 145°C (Styrene) 1.10 – 1.14 3.59 (Styrene) Not available
8.14	DISPERSION PROPERTIES	Not dispersed in water.

SECTION - 9: STABILITY AND RECATIVITY 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	Polymerizes in the presence of organic peroxides, oxidizing materials, or heat.
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 Contac	t. Eve contac
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10.2 TOXICITY TO ANIMALS

1) Styrene

Lung effects have been observed in mouse studies following repeated exposures.



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SECTION - 11: ECOLOGICAL INFORMATION

ECOTOXICITY T

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

3

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: 31°C; EMS No.: F-E, S-E

SECTION – 13: REGULATORY INFORMATION

OTHER REGULATIONS

This section does not reference all applicable regulatory compliance

iists.

OSHA: Hazardous by definition of Hazard Communication Standard

(29 CFR 1910.1200)

SARA 302 component(s): None.

SARA 313 component(s): Styrene (100ppm), Cobalt Compounds.

SECTION – 14: SPECIAL PRECAUTIONS

14.1 PRECAUTION ON HANDLING AND STORING

Flammable. Keep away from heat, sparks and

NG open flame

SECTION – 15: DISPOSAL INFORMATION

15.1 SPILL AND LEAK PROCEDURES

Soak up with inert adsorbent material. Shovel in to suitable container for disposal. After



$\begin{array}{c} \textbf{MATERIAL SAFETY DATA SHEET} \\ \textbf{MECHSTER}^{\texttt{TM}} \ 9000S(CM) \end{array}$

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15.2 WASTE DISPOSAL METHOD

cleaning, flush away traces with water. Incinerate or land-fill in accordance with local pollution regulation and ordinance.

SECTION – 16: OTHER INFORMATION

