



SECTION – 1: PRODUCT & COMPANY IDENTIFICATION					
1.1	CHEMICAL	NAME/SYN	MYNOI		ED POLYESTER RESIN
			_	SOLUTION IN	
1.2	BRAND / T	RADE NAMI	E		C PREACCLERATED
				ISOPHTHALA	
4.0	OLIENALO AL	COMPOSI	FION	MECHSTER	` '
1.3	CHEMICAL		HON		id based polyester resin
1.4	MANHEAC	TURER'S N	VME VND	solution in Sty	RESINS PVT. LTD.
1.4	ADDRESS	TORER 3 IV	AIVIE AIVID		INDUSTRIAL AREA, MIDC,
	ADDITEGO				VI MUMBAI – 400 613.
				INDIA.	400 010.
1.5	EMERGEN	CY TELEPH	IONE NOS.		2720 / 27632153 / 27632154
	FAX NO.			: +91-22-27682	2721
	E-MAIL AD	DRESS		: mechemcores	sins@vsnl.net / mrpl@mtnl.net.in
SECTION – 2: INFORMATION ON HAZARDOUS INGREDIENTS					
ING	REDIENT	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.		

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### **SECTION – 4: FIRE AND EXPLOSION DATA**

4.1 4.2	THE PRODUCT IS AUTO IGNITION TEMPERATURE	Flammable liquid, Class IC. 490°C Styrene
4.3	FLASH POINT	34°C Styrene
4.4	FLAMMABLE LIMITS	LOWER: 0.9%
4.5	PRODUCTS OF COMBUSTION	UPPER: 6.8% (Styrene) 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	Can react with oxidizing materials. Explosive in the form of
	HAZARD	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	SMALL FIRE: Use carbon dioxide, foam, dry chemical or
	INSTRUCTIONS	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"

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SECTION .	- 7· FMPI ∩YF	E PROTECTION	/ SPECIAL	PROTECTION
SECTION .	-/. LIVIFLUIL	LFNOILGIIDIN	/ OF LUIAL	FRUILGIIUN

7.1 RESPIRATORY PROTECTION: In case of insufficient ventilation wear suitable

respiratory equipment

7.2 VENTILATION : Mechanical ventilation and local exhaust

7.3 OTHER PROTECTIVE

**EQUIPMENT** 

a) Hands Protectionb) Eye Protectionc) PVC or other plastic material glovesd) 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	PHYSICAL STATE COLOUR	Viscous Liquid Opaque Pale Pink
8.3 8.4	MOLECULAR WEIGHT (d/mol) MELTING POINT	1000 to 15000 Not available
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	1.08 – 1.14
8.12	VAPOR DENSITY	3.59 (Styrene)
8.13	WATER/OIL dist.coeff.	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	Polymerizes in the presence of organic
	VARIOUS SUBSTANCES	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.

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#### 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

Toxic to aquatic organisms. Should not be released to sewage system ECOTOXICITY

or other bodies of water at concentrations above limits established in

regulations or permits.

#### **SECTION – 12: TRANSPORT INFORMATION**

DOT - SHIPPING 12.1 UN1866; RESIN SOLUTION; 3; III

DESCRIPTION

UN1866; RESIN SOLUTION; 3; III

12.2 TDG - SHIPPING DESCRIPTION

12.3 IATA/IMDG – SHIPPING IATA:

> DESCRIPTION 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 This section does not reference all applicable regulatory compliance

REGULATIONS

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.

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#### **SECTION – 14: SPECIAL PRECAUTIONS**

14.1 PRECAUTION ON Flammable. Keep away from heat, sparks and HANDLING AND STORING open flame

#### **SECTION – 15: DISPOSAL INFORMATION**

15.1 SPILL AND LEAK 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**

