

SILMAR® MATERIAL SAFETY DATA SHEET

TRADE NAME

EZ CAST

MANUFACTURER

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EMERGENCY TELEPHONE

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CHEMICAL NAME - Unsaturated Polyester in Monomer

CHEMICAL FAMILY - Synthetic Organic Resin

II - INGREDIENTS

		%	<u>EXPOSURE LIMITS</u>
VEHICLE	Unsaturated Polyester	50-72	See Section V - Standards & Guidelines
OTHERS	Styrene Monomer	28-50	

III - PHYSICAL DATA

BOILING POINT	Above 145°C (293°F)	SPECIFIC GRAVITY	≈ 1.12
VAPOR PRESSURE	(mm Hg) <5 at 20°C (68°F)	PERCENT VOLATILE BY WT.	
VAPOR DENSITY	(AIR=1) 3.6	APPROX. %	28-50
SOLUBILITY IN WATER	- Slight	EVAPORATION RATE	
APPEARANCE AND ODOR	- Clear liquid with distinct odor.	(n-BUTYL ACETATE = 1)	<1

IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT Tag Closed Cup, 87°F - 95°F  
FLAMMABLE LIMITS - Lower Upper  
(Vol. % in air) 1.1 6.1

EXTINGUISHING MEDIA- Foam, carbon dioxide or dry chemical, per National Fire Protection Association Class "B" extinguisher.

SPECIAL FIRE FIGHTING PROCEDURES - fight like a fuel oil fire.

UNUSUAL FIRE AND EXPLOSION HAZARD - Monomers will readily polymerize at elevated temperatures such as fire conditions. Closed containers of monomer may rupture violently.

V - HEALTH HAZARD DATA

TLV: STYRENE - 50 ppm, 8-HR. TWA; 100 ppm STEL.

STANDARDS & GUIDELINES OSHA: STYRENE - 100 ppm, 8-HR. TWA; 200 ppm CEILING.

EFFECTS OF OVEREXPOSURE - Irritating to all parts of the respiratory tract. Both liquid styrene and vapor can be extremely irritating to the eyes. Liquid contact with the skin may cause moderate irritation.

IS THIS MATERIAL A SENSITIZER? No.

EMERGENCY AND FIRST AID PROCEDURES -

INHALATION: Remove subject to fresh air immediately. Administer oxygen or artificial respiration as required.

SKIN CONTACT: Thoroughly wash with soap and water. Remove contaminated clothing.

EYE CONTACT: Flush with copious amount of water for 15 minutes. Eyelids should be held open and away from eyeball for thorough rinsing. Refer to ophthalmologist.

INGESTION: Consult a physician promptly.

3/18/83

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable      Stable	Flammable Liquid

Incompatibility (materials to avoid) Handling equipment must be resistant to Styrene Monomer and/or organic chemical constituents.

Hazardous Decomposition Products \_\_\_\_\_

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	Promoters & catalysts must be mixed into products separately and must never be mixed together directly.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Eliminate all ignition sources. Avoid direct skin contact and inhalation of vapors. Use absorbent materials like perlite and vermiculite.

Waste Disposal Method Containerize waste for disposal. Dispose or recycle waste materials in accordance with local, state, & federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify type) In confined workspaces where vapors may accumulate use a NIOSH/MHSA approved respirator for organic vapors.

Ventilation	Local Exhaust as necessary to maintain contaminant concentration below OSHA Standards.	Special
	Mechanical (General)	Other

Protective Gloves Use solvent resistive glove materials

Eye Protection Chemical Safety Goggles/ Safety Glasses with sideshields recommended

Other Protective Equipment \_\_\_\_\_

SECTION IX SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing Store away from heat and sunlight.

Maintain adequate separation from catalysts and promoters.

Other Precautions \_\_\_\_\_

We believe this information is reliable, but we do not guarantee its accuracy and assume no liability arising out of its use. The user should thoroughly test any application before commercialization. Our recommendations should not be taken as inducements to infringe any patent or violate any law, safety code or insurance regulation.