

ITEM# 88043

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Date of Preparation 6/15/97

Material Safety Data Sheet

CHEMTREC: (800) 424-9300		B.D. CLASSIC (562) 944-6177	
ACUTE HEALTH → 2	FIRE → 1	REACTIVITY → 0	HAZARD RATING → LEAST - 0 SLIGHT - 1 MODERATE - 2 HIGH - 3 EXTREME - 4
* For acute and chronic health effects refer to the discussion in Section III			

88043

SECTION I PRODUCT NAME

PRODUCT : CASTING RESIN
 CHEMICAL NAME : UNSATURATED POLYESTER RESIN

SECTION II-A		PRODUCT/INGREDIENT	
NO.	COMPOSITION	CAS NUMBER	PERCENT
1	UNSATURATED POLYESTER RESIN	#See Index	62-64%
2	STYRENE	#100-42-5	36-38%

OSHA ceiling value is 100 ppm and ACGIH short term exposure limit (STEL) is 100 ppm. NIOSH recommends a limit of 50 ppm, 8-hour TWA; 100 ppm 15 minute ceiling.

SECTION III HEALTH INFORMATION

Permissible Exposure Level: Not established for product. See Section II.

Effects of Overexposure: For Styrene

Eyes - Can cause sever irritation, redness, tearing, blurred vision.

Skin - Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

Breathing - Excessive inhalation of vapors can cause nasal irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.

Swallowing - Can cause gastrointestinal irritation, nausea, vomiting, diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis.

First Aid:

If on Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

If on Eyes: Flush with large amount of water, lifting upper and lower lids occasionally. Get medical attention.

If Swallowed: Do not induce vomiting. Keep person warm, quiet and get medical attention. Aspiration of material into the lungs due to vomiting cau cause chemical pneumonitis which can be fatal.

If Breathed: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention.

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IV. FIRE-FIGHTING MEASURES

IGNITION TEMPERATURE (DEGREES F):

NOT DETERMINED

FLASH POINT (DEGREES F):

88

FLAMMABLE LIMITS (%):

LOWER: 1.1%

UPPER: 6.1%

SPECIAL FIREFIGHTING PROCEDURES:

Water or foam may cause frothing which can be violent and possible endanger the life of the firefighter, especially if sprayed into containers of hot, burning liquid.

Wear self-contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode when fighting fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

V. HANDLING AND STORAGE

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapors, liquid, and/or solid), all hazard precautions given in this data sheet must be observed.

Overexposure to styrene has apparently been found to cause the following effects in laboratory animals: liver abnormalities, kidney damage, and lung damage.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with Interplastic or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

VI. EXPOSURE CONTROLS/ PERSONAL PROTECTION**PROTECTIVE EQUIPMENT (TYPE)****RESPIRATORY PROTECTION:**

If TLV of the product or any component is exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

VENTILATION:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

PROTECTIVE GLOVES:

Wear resistant gloves such as: neoprene, nitrile rubber.

EYE PROTECTION:

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses (consult your safety equipment supplier).

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OTHER PROTECTIVE EQUIPMENT:

Normal work clothing covering arms and legs.

VII. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	: 293.40 DEG F @ 760.00 mm Hg.
SPECIFIC GRAVITY (WATER = 1)	: 1.0 - 1.2 @ 77.00 DEG F (25.00 DEG C)
VAPOR PRESSURE	: 4.3 mm Hg (20.00 DEG C)
VAPOR DENSITY (AIR = 1)	: 3.6
PERCENT NON-VOLATILE	: 62 - 64%
EVAPORATION RATE	: Slower than Ether

VIII. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Can Occur

STABILITY : Stable

INCOMPATIBILITY : Avoid contact with: strong alkalis, strong mineral acids and oxidizing agents.

CONDITIONS TO AVOID : Exposure to excessive heat or open flame; storage in open containers; prolonged storage (6 months), storage above 38 DEG C (100 DEG F). Contamination with oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS : Carbon Monoxide, Carbon Dioxide, Low Molecular Weight Hydrocarbons, Organic Acids

IX. SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and transfer to hood.

LARGE SPILL: Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into containers.

Waste Disposal Method:

SMALL SPILL: Allow volatile portion to evaporate in hood. Allow sufficient time for vapors to completely clear hood duct work. Dispose of remaining material in accordance with applicable regulations.

LARGE SPILL: Destroy by liquid incineration in accordance with applicable regulations.

Contaminated absorbent should be disposed of in accordance with local, state and federal regulations.

X. SUPPLEMENT

Styrene has been identified as a possible human carcinogen by the International Agency for Research on Cancer (IARC). The IARC determination is based on "limited evidence" in animals and other "relevant data." IARC concedes there is "inadequate evidence" on humans for its findings.

The significance of these results for humans has not been established. Styrene is not expected to cause cancer in humans at concentrations below the recommended exposure standard or when appropriate industrial hygiene procedures are followed. Moreover, studies in humans exposed for long periods of time to styrene have not

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demonstrated any carcinogenic effects.

At the conclusion of a major notice and comment rulemaking revising its air contaminants regulations, OSHA concluded that the "current evidence on styrene's carcinogenicity does not support its classification in the final rule as a carcinogen." In the same rulemaking, the National Institute for Occupational Safety and Health (NIOSH) commented that there "seems to be little bases from experimental animal investigations or epidemiologic studies to conclude at this time that styrene is carcinogenic." The National Toxicology Program does not include styrene on its list of chemical expected to be carcinogenic.

Supplier Notification

This product contains toxic chemical subject to the reporting requirements of section 313 of the Emergency Planning and Community right-to-know Act of 1986 and of 40 CFR 372. Please refer to Section 1 - Product/Ingredient for the specific product and concentration.