

CASTING RESIN

MATERIAL SAFETY DATA SHEET DATE OF PREPARATION: 02/25/05

SECTION 1 PRODUCT INFORMATION

PRODUCT NAME: CLEAR CASTING RESIN
PRODUCT CLASS: UNSATURATED POLYESTER RESIN

D.O.T. SHIPPING INFORMATION:
PROPER SHIPPING NAME: RESIN SOLUTION, 3, UN1866, PG III
PROPER HAZARD CLASS: FLAMMABLE LIQUID

TRANSPORTATION EMERGENCY PHONE NUMBER:
CHEMTREC (800)424-9300

MANUFACTURED BY: B. D. CLASSIC ENTERPRISES, INC.
12903 SUNSHINE AVENUE
SANTA FE SPRINGS, CA 9-670-0445
(800) 543-8551

SECTION 2 HAZARDOUS INGREDIENTS/IDENTIFY INFORMATION

Hazardous Components	CAS Reg. No.	Approx. Wt.%	ACGIH TWA/TLB	OSHA PEL	Vapor Pressure Mm Hg
STYRENE This chemical is subject to reporting under SARA Title III Section 313	100-42-5	<35	50ppm	50ppm	4.30 @68°F

SECTION 3 PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 293.4°F @ 760 mmHg
VAPOR PRESSURE: 4.50 mmHg @ 68°F
SPECIFIC VAPOR DENSITY: 3.60 @ air=1
SPECIFIC GRAVITY: 1.082-1.118 @ 77°F
LIQUID DENSITY: 9.100-9.300 LBS/GAL @ 77°F
PERCENT VOLATILES: 31.0 – 37.0%
EVAPORATION RATE: SLOWER THAN ETHYL ETHER
APPEARANCE: CLEAR, VISCOUS
STATE: LIQUID

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 86°F SETAFLASH

FLAMMABLE LIMITS: % IN AIR LEL: 1.10 UEL: 6.10
EXTINGUISHING MEDIA: x FOAM ALCOHOL FOAM x CO2
x DRY CHEMICAL WATER SPRAY OTHER

SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus, use water spray to cool containers to prevent pressure build-up, auto-ignition, or explosion. Avoid spreading burning liquid with water used for cooling.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed and isolated from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to excessive heat.

SECTION 5	REACTIVITY DATA
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STABILITY __ UNSTABLE X STABLE

CONDITIONS TO AVOID: Exposure to excessive heat

INCOMPATIBILITY (MATERIALS TO AVOID): Strong mineral acids, peroxides, and polymerization catalysts.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Burning material emits toxic oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION X MAY OCCUR __ MAY NOT OCCUR

CONDITIONS TO AVOID: Exposure to excessive heat and incompatible materials.

SECTION 6	HEALTH HAZARD DATA
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ROUTE(S) OF ENTRY: Inhalation? Yes Skin? Yes Ingestion? Yes

HEALTH HAZARDS (ACUTE AND CHRONIC): Severe eye irritation, skin irritation, dizziness, nausea, narcosis (Central Nervous system Depression) on inhalation. Chronic exposure could damage CNS, respiratory system, eyes, gastrointestinal tract, liver, spleen, and kidneys.

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? Yes OSHA REGULATED? No
IARC Lists Styrene as “Animal Positive”. There is no evidence that it is a human carcinogen.

SIGNS AND SYMPTOMS OF EXPOSURE: Respiratory or skin irritation, dizziness, gastrointestinal irritation, nausea, vomiting.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory or skin disease may be worsened by exposure to this product.

EMERGENCY AND FIRST AID PROCEDURES: Flush eyes with water for 15 minutes occasionally lifting eyelids. Remove contaminated clothing and wash skin with soap and water. Inhalation: Move to fresh air; apply artificial respiration or administer oxygen as necessary. Ingestion: Do NOT induce vomiting. For any significant exposure, call a physician immediately!

SECTION 7	PRECAUTIONS FOR SAFE HANDLING AND USE
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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Keep spectators away. Ventilate area and remove all sources of ignition. Equip employees with appropriate protective equipment. Dike around spill and cover with absorbent material. Shovel with non-sparking tools into containers. Seal containers and remove to safe area.

WASTE DISPOSAL METHOD: Dispose of all waste in accordance with federal, state, and local environmental regulatory controls.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Protect containers against physical damage and store in ventilated area removed from excessive heat, electrical equipment and sources of ignition.

OTHER PRECAUTIONS: Ground and bond equipment during transfer into containers. Use non-sparking tools. Dispose of drums with licensed waste hauler. Never weld or flame-cut an empty container.

SECTION 8	CONTROL MEASURES
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RESPIRATORY PROTECTION (SPECIFY TYPE): IF TLV IS EXCEEDED, USE NIOSH APPROVED, FULL-FACE ATMOSPHERE SUPPLYING RESPIRATOR OR AIR PURIFYING RESPIRATOR FOR ORGANIC VAPOR

VENTILATION:

LOCAL EXHAUST: REQUIRED

MECHANICAL (GENERAL): REQUIRED - SUFFICIENT TO KEEP AIRBORNE VAPOR CONCENTRATIONS BELOW THE TLV LIMIT.

PROTECTIVE GLOVES: POLYVINYL ALCOHOL

EYE PROTECTION: SPLASH GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: POLYVINYL ALCOHOL APRON. EYE BATH AND SAFETY SHOWER. WEAR IMPERVIOUS CLOTHING AND FOOTWEAR.

WORK/HYGIENIC PRACTICES: SMOKE ONLY IN APPROVED AREA. WASH HANDS BEFORE EATING, SMOKING OR USING RESTROOM. DO NOT RE-USE CONTAMINATED CLOTHING.

HAZARD CATEGORIES FOR SARA TITLE III SECTIONS 311/312 REPORTING ARE: 1) FIRE HAZARD; 2) SUDDEN RELEASE OR PRESSURE HAZARD; 3) REACTIVE HAZARD; 4) IMMEDIATE (ACUTE) HEALTH HAZARD; 5) DELAYED (CHRONIC) HEALTH HAZARD.

THE DOT/CERCLA REPORTABLE QUANTITY (RQ) FOR THIS PRODUCT IS 2,907 LBS. BASED ON THE RQ OF STYRENE AND ITS PERCENT IN PRODUCT. **WARNING**** THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.**

ALL INFORMATION, RECOMMENDATIONS, AND SUGGESTIONS APPEARING HEREIN CONCERNING OUR PRODUCT ARE BASED UPON TESTS AND DATA BELIEVED TO BE RELIABLE. HOWEVER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY, AND SUITABILITY FOR HIS OR HER OWN USE OF THE PRODUCT DESCRIBED HEREIN. SINCE THE ACTUAL USE BY OTHERS IS BEYOND B. D. CLASSIC'S CONTROL, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE BY B. D. CLASSIC AS TO THE AFFECTS OF SUCH USE, THE RESULTS TO BE OBTAINED, OR THE SAFETY AND TOXICITY OF THE PRODUCT.