

EMS CATALOG NO: 24210-01-02-08
EMS PRODUCT: ACRYLIC PLASTIC CASTING
(RESIN)
DATE: August 11, 2011

MATERIAL SAFETY DATA SHEET

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Electron Microscopy Sciences assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

ELECTRON MICROSCOPY SCIENCES

1560 INDUSTRY ROAD
P.O. BOX 550
HATFIELD, PA 19440
215-412-8400 /Fax 215-412-8450

email: sgkcek@aol.com
WEB: www.emsdiasum.com

24 HOUR EMERGENCY PHONE NUMBER

CHEMTREC: (800) 424-9300

FOR PRODUCT AND SALES INFORMATION

CONTACT ELECTRON MICROSCOPY SCIENCES OFFICE ABOVE.

PRODUCT IDENTIFICATION

PRODUCT CODE: CL-AP

TRADE NAME: CASTOLITE – AP

PRODUCT CLASS: UNSATURATED POLYESTER

C.A.S. NUMBER: MIXTURE

HMIS RATING: HEALTH – 2 FIRE – 3 REACTIVITY - 1

EFFECTS OF OVEREXPOSURE:

SKIN: Prolonged or frequent contact may cause defatting and dryness of the skin with irritation and possible dermatitis. Styrene may be absorbed through the skin in toxic amounts.

EYES: May cause irritation. Liquid splashes may result in more serious injuries. May cause lachrymation (tears).

INHALATION: Vapors may cause mucous membrane irritation and upper respiratory tract discomfort. High concentration may result in headache, nausea, insensibility and other central nervous system effects. Repeated exposure to high concentrations may cause liver and kidney damage.

INGESTION: may cause gastrointestinal disturbances, pain and discomfort. Prolonged or repeated exposure to methyl methacrylate can cause liver and kidney damage, and allergic skin reaction.

FIRST AID:

SKIN: Wash with soap and water.

EYES: flush with copious amounts of water for 15 minutes. Seek immediate medical aid.

INHALATION: Remove victim from exposure. If victim is unconscious, administer artificial respiration and/or oxygen as need. Seek medical aid.

INGESTION: DO NOT INDUCE VOMITING_(aspiration hazard). Seek immediate medical aid.

PRIMARY ROUTE (S) OF ENTRY: Inhalation and skin absorption.

TOXICOLOGICAL INFORMATION: The International Agency for Research on Cancer (IARC) has classified styrene as possibly carcinogenic to humans (class 2B). The IARC 2B classification is not based on significant new evidence that styrene might be a carcinogen, but on a revised IARC classification scheme and new data on styrene oxide.

STYRENE: LD50 (90RA/RAT) 5 GM/KG; LD50 (DRML/RABBIT) 2820MG/KG; LC50 (INHL/RAT) 24 GM/M3/4H

METHYL METHACRYLATE: LD50 (ORAL/RAT) 7872 MG/KG; LD50 (DRML/RABBIT) 35.5 G/KG; LC50 (INHL/RAT) 24 GM/M3/4H

REACTIVIITY DATA

STABILTY: Stable

HAZARDOUS POLYMERIZATION: May occur

INCOMPATIBILITY: Strong acids and oxidizing agents.

CONDITIONS TO AVOID: Heat and direct sunlight.

HAZARDOUS DECOMPISTION PRODUCTS: Heating of this material to decomposition may cause the emission of irritating, acrid fumes.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place in a closed container. If large spill, dike the area to prevent this material from entering water systems or sewers. This material contains the following ingredients which, if spilled or released in quantities equal to or greater than the Reportable Quantity (RQ), are subject to the reporting requirements of CERCLA and/or SARA (40 CFR Parts 302 &355):

STYRENE MONOMER: RQ VALUE = 1000 lbs.
METHYL METHACRYLATE: RQ VALUE = 1000 lbs.

WASTE DISPOSAL METHOD: This material has been tested and found to have a flash point below 140° F. If discarded, this material and containers should be treated as hazardous wastes based on the characteristic of ignitability as defined under the federal RCRA regulations (40 CFR 261). Disposal of this material and its container required compliance with applicable labeling, packaging, and record keeping standards. Extreme care should be taken to ensure that it is disposed of only in a facility permitted for disposal of hazardous waste. For further information, contact your state or local solid waste agency for the United States Environmental Protection Agency's RCRA hotline (1-800-424-9346 or 202-382-3000).

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If a TLV or PEL listed in the Health Hazard Data section of this data sheet is exceeded, then suitable respiratory protection must be worn to prevent overexposure.

VENTILATION: General ventilation is required during normal use. Local ventilation may be required during certain operations to keep exposure levels below the TLV listed in the Ingredients Section of this data sheet.

PROTECTIVE GLOVES: Wear appropriate imperious gloves to prevent skin contact.

EYE PROTECTION: Wear face shield or chemical goggles.

OTHER PROTECTIVE EQUIPMENT: Wear protective clothing to prevent skin contact. Eye wash station and safety shower should be available.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid storage above 100° F. Avoid prolonged or repeated skin contact. Avoid inhalation of heated vapors or spray mists.

OTHER PRECAUTIONS: Avoid improper addition of promoter and /or catalyst. A promoter and catalyst used with this product should always be mixed separately with the product and must never be mixed together.

SUPPLEMENTAL INFORMATION

REGULATORY INFORMATION: SCAQMD Rule 1162 establishes specific process, control housekeeping and record keeping requirements for fabrication operations using polyester resin materials. It is the responsibility of the fabricator to ensure compliance with these requirements.

STYRENE is NOT currently listed as a carcinogen by California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

SARA & WHMIS HAZARD CLASSIFICATION: this material has been categorized as having the following hazard (s) as defined by SARA Title III regulations (40 CFR 370): acute, chronic, fire reactive.

CANADIAN WHMIS CLASSIFICATION: B2, D2A, D2B

SARA SECTION 313 LISTED INGREDIENTS: The following ingredients in this material are subject to the reporting requirements of section 313 of SARA and 40 CFR 372 (see ingredients for percentage of ingredient (s)).

STYRENE MONOMER (100-42-5)

METHYL METHACRYLATE (80-62-6)

DOT PROPER SHIPPING NAME: RESIN SOLUTION,3, UN1866 III