

EMS CATALOG NO: 24210-01, 24210-02, 24210-08
EMS PRODUCT: ACRYLIC PLASTIC CASTING
(HARDENER)
DATE: June 22, 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.

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FOR PRODUCT AND SALES INFORMATION

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N F P A HAZARD RATING

4 – EXTREME

3 – HIGH

2 - MODERATE

1 – SLIGHT

0 – INSIGNIFICANT

HEALTH - 3

FIRE - 2

REACTIVITY - 2

PRODUCT IDENTIFICATION

PRODUCT NAME: CASTOLITE/CASTOGLAS HARDNER

PRODUCT CLASS: UNSATURATED POLYESTER

CAS NO.: 1338-23-4

PHYSICAL DATA

CHEMICAL NAME: METHYL ETHYL KETONE PEROXIDE

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND CARBON DIOXIDE FROM BURNING

INCOMPATIBILITY (KEEP AWAY FROM): STRONG ACIDS, BASES, PROMOTERS, ACCELERATORS, READILY OXIDIZABLES AND METAL SALTS

TOXIC AND HAZARDOUS INGREDIENTS:

	<u>%</u>	<u>CAS #</u>
METHYL ETHYL KETONE PEROXIDE (9% ACTIVE OXYGEN MAX.)	38 +/-2	1338-23-4
DIMETHYLPHTHALATE	47 +/-2	131-11-3

FROM: LIQUID

ODOR: SLIGHTLY PUNGENT

APPEARANCE: CLEAR

COLOR: WATER-WHITE

SPECIFIC GRAVITY (WATER=1): 1.11

BOILING POINT: NO DATA AVAILABLE, DECOMPOSES OVER 68° F.

MELTING POINT: NOT APPLICABLE.

SOLUBILITY IN WATER (BY WEIGHT %): LESS THAN 1 AT 25° C.

VOLATILE (BY WEIGHT %): LESS THAN 3.

EVAPORATION RATE: NOT APPLICABLE.

VAPOR DENSITY (AIR =1): NOT APPLICABLE.

Ph (AS IS): NO DATA AVAILABLE.

STABILITY: PRODUCT IS STABLE WHEN STORED AT RECOMMENDED TEMPERATURES.

VISCOSITY SUS AT 100° F: 101 SUS; 15-16 CENTISTOKES AT 25° C (77° F).

OTHER PHYSICAL PROPERTIES: SELF ACCELERATING DECOMPOSITION TEMPERATURE (SADT): 4 GAL: /1 C (160° F) 1 GAL: 75° C (166° F).

FIRE AND EXPLOSION DATE

SPECIAL FIRE FIGHTING PROCEDURES: Fight fire with large amount s of water from a safe distance. Keep containers cool with water spray. After a fire, wait until material has cooled to room temperature before starting clean-up. Wear protective equipment to prevent smoke inhalation.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Potential explosion hazards. Once ignited, product will burn vigorously.

FLASHPOINT: (Method used) Setaflash closed tester 82° C (180° F).

FLAMMABLE LIMITS %: Not applicable.

EXTINGUISHING AGENTS: Waterspray or Waterfog and CO² or foam. Closed containers exposed to fire may be cooled with water.

HEALTH HAZARD DATA

PERMISSIBLE CONCENTRATIONS (AIR): Methyl ethyl ketone peroxide: 0.7 ppm, 5 mg/m³ ceiling (SAHA); 0.2 ppm, 105mg/m³ ceiling (ACGIH). Dimethylphthalate: 5mg/m³ (OSHA/ACGIH).

CHRONIC EFFECTS OF OVEREXPOSURE: Specific symptoms and effects of over exposure not known, but will cause severe eye irritation: may cause blindness. Harmful if inhaled. Harmful or fatal if swallowed. Moderate skin irritant.

ACUTE TOXICOLOGICAL PROPERTIES: For methyl ethyl ketone peroxide: acute oral LD 50 = 1017 mg/kg (rat): eye (rabbit) severe irritant/corrosive.

EMERGENCY FIRST AID PROCEDURES: EYES: Immediately flush with large quantities of water on site for 20 to 30 minutes. Hold eyes open while flushing. Call a physician. Continue water flush to one hour during transport to a medical facility.

SKIN CONTACT: Wash with soap and water. If irritation occurs, see a physician.

INHALATION: Remove to fresh air. Consult a physician if discomfort persists.

IF SWALLOWED: administer large quantities of water. If person is conscious. Never give anything by mouth to an unconscious person. Immediately contact a physician.

ROUTES OF ENTRY: inhalation, skin/eye contact, ingestion.

SPECIAL PROTECTION INFORMATION

VENTILATION TYPE REQUIRED (LOCAL, MECHANICAL SPECIAL): Local if necessary to maintain allowable PEL (permissible exposure limit) or TLV (threshold limit value).

RESPIRATORY PROTECTION (SPECIFY TYPE): Use NIOSH/MSHA certified respirator with organic vapor cartridge if vapor concentration exceeds permissible exposure limit.

PROTECTIVE GLOVES: Neoprene type.

EYE PROTECTION: Chemical safety goggles.

OTHER PROTECTIVE EQUIPMENT: As required to protect against skin contact.

HANDLING OF SPILLS OR LEAKS

PROCEDURES FOR CLEAN-UP: Use appropriate protective clothing during clean-up. Absorb spills with inert material such as perlite, vermiculite or sand and then wet with water. Sweep up using non-sparking equipment and place in double polyethylene bags. Isolate leakers and contaminated containers to a safe place for disposal.

WASTE DISPOSAL: Dispose of in accordance with all applicable federal, state and local regulations. Dispose of waste at EPA-approved waste disposal facilities.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in original containers away from promoters and combustible material. Keep away from acids, heat, sparks, flames and direct sunlight. Keep closed to avoid contamination. Isolated storage is desirable.

MAXIMUM STORAGE TEMPERATURE: 38° c (100°F).

TRANSPORTATION DATA

D.O.T.: Regulated.

U.S. D.O.T. PROPER SHIPPING NAME: Organic peroxide Type D, Liquid (methyl ethyl ketone peroxides, =<45%, 502, UN 3105, PG II, RQ. ERG 48, Hi-Point 90.

U.S. D.O.T. HAZARD CLASS: Organic Peroxide.

I.D. NUMBER: UN 3105.

LABEL (S) REQUIRED: Organic Peroxide.

REPORTABLE QUANTITY: 10 LB/4.54 KG (for 2-butanone peroxide (or methyl ethyl ketone peroxide).

FREIGHT CLASSIFICATION: Chemicals, NOI, N.F.M.C. item 43940 Sub 2.

SPECIAL TRANSPORTATION NOTES: None.

ENVIRONMENTAL/SAFETY REGULATIONS

SECTION 313 (TITLE III SUPERFUND AMENDMENT AND REAUTHORIZATION ACT): This product contains the following chemical (s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (the corresponding CAS number and percent of the weight are also provided:

dimethyl phthalate CAS# 131-11-3 47%
Methyl ethyl ketone CAS# 78-93-3 2%

COMMENTS

NEVER MIX ANY PROMOTER OR ACCELERATOR WITH PRODUCT AS VERY RAPID OR EXPLOSIVE DECOMPOSITION COULD OCCUR. DO NOT STORE WITH FOOD OR DRINK.