

Section1- Product and Company Identification**Product Name:** 2-Ethylhexyl methacrylate**Synonyms:** Methacrylic acid 2-ethylhexyl ester; EHMA**Company Name:** Shanghai Hechuang Chemical Technology Co., Ltd**Address:** No.688, Qiushi Road, Jinshan District, Shanghai, China**Zip Code:** 201512**Email:** hcchem@126.com**Fax:** 86-21-37285163**Emergency Tel:** 86-21-37285183**Product Code:** HCM107**Effective Date:** August 22, 2008**State Emergency Tel:** 86112**Section 2 - Composition/Information on Ingredients**Simple Mixture

Chemical Name	Proportion	CAS No.
EHMA	≥99.0%	688-84-6

Molecular Weight: 198.30**Chemical Formula:** C₁₂H₂₂O₂**Section 3 - Hazards Identification**

Appearance: clear colorless liquid. Flash Point: 92°C.

Danger! Combustible liquid and vapor. May cause skin sensitization by skin contact. Causes eye, skin, and respiratory tract irritation. Heat sensitive. Light sensitive.**Target Organs:** Respiratory system, eyes, skin.**Potential Health Effects****Eye:** Causes eye redness. Lachrymator (substance which increases the flow of tears).**Skin:** Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

Inhalation: Causes respiratory tract irritation. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause abdominal pain, nausea, vomiting, and inflammation of the gums and mouth. May be harmful if inhaled.

Chronic: Chronic exposure may cause effects similar to those of acute exposure.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: POISON material. If inhaled, get medical aid immediately. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Fire or excessive heat may result in violent rupture of the container due to bulk polymerization. Combustible liquid and vapor.

Extinguishing Media: In case of fire, use dry chemical, chemical foam, water spray or alcohol-resistant foam.

Flash Point: 92°C

Auto ignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 2; Instability: 2

Section 6- Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Use a spark-proof tool. Remove all sources of ignition. Provide ventilation.

Section 7- Handling and Storage Measures

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Use with adequate ventilation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Keep away from heat and flame. Do not breathe vapor or mist. Pure vapor will be uninhibited and may polymerize in vents or other confined spaces.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container. Do not exceed 30°C (86°F)

Section 8- Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
2-Ethylhexyl methacrylate	none listed	none listed	none listed

OSHA Vacated PELs: 2-Ethylhexyl methacrylate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear, colorless

Odor: weak odor

pH: Not available.

Vapor Pressure: 0.13mbar@20°C

Vapor Density: 6.8

Evaporation Rate: Not available

Viscosity: 1.6 mPa·s @ 20°C

Boiling Point: 234.8 deg C

Freezing/Melting Point: -50°C

Decomposition Temperature: Not available.

Solubility: <0.1g/L

Specific Gravity/Density: 0.879 g/ml @25°C

Molecular Formula: C₁₂H₂₂O₂

Molecular Weight: 198.30

Section 10 - Stability and Reactivity

Chemical Stability: Light sensitive. Heat sensitive.

Conditions to Avoid: Light, ignition sources, high temperatures, incompatible materials.

Incompatibilities with Other Materials: Oxidizing agents, peroxides, strong acids, bases, amines, halogens, charcoal.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: May occur.

Section 11 - Toxicological Information

RTECS No.:

CAS No. 688-84-6: OZ4630000

LD50/LC50:

Not available.

Carcinogenicity:

CAS No. 688-84-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information found.

Neurotoxicity: No information found.

Other Studies:

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

No information available.

Section 15 - Regulatory Information

US FEDERAL

CAS No. 688-84-6 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS No. 688-84-6: immediate, fire, reactive.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletes.

This material does not contain any Class 2 Ozone depletes.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS No. 688-84-6 can be found on the following state right to know lists: Pennsylvania, Massachusetts. Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 43 May cause sensitization by skin contact.

Safety Phrases:

S 24 Avoid contact with skin.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face

WGK (Water Danger/Protection)

CAS No.688-84-6: 1

Canada - DSL/NDSL

CAS No. 688-84-6 is listed on Canada's DSL List.

CAS No. 688-84-6 is listed on Canada's Ingredient Disclosure List.

Canada – WHMIS

This product has a WHMIS classification of B3, D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS No. 688-84-6 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 22 / 08 / 2008

Revision Date: 18 / 06 / 2010

Creation Department: Comprehensive administration department of Shanghai Hechuang Chemical Co., Lt.

Data Audit Unit: Shanghai Hechuang Chemical Technology Co., Ltd.

Important Advice: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.