

Safety Data Sheet  
2-ETHYLHEXYL ACRYLATE

SECTION I - IDENTIFICATION



The Chemical Supply  
9595 Six Pine Dr.  
Ste 8210  
The Woodlands, TX 77380.

Product Number 2 EHA  
Product Name 2-ETHYLHEXYL ACRYLATE  
Chemical Family  
CAS Number 103-11-7  
Date Prepared 7/25/2018  
Revision Number 7/25/2018  
Recommended Use monomer of plastic products, protective coating, paper treatments, production of water s

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification

Flammable Liquids	Category 4
Acute Toxicity, Oral	Category 5
Skin Corrosion/Irritation	Category 2
Sensitization, Skin	Category 1
Specific target organ toxicity, single exposure, R	Category 3
Hazardous to the aquatic environment, acute hazard	Category 2

WARNING!

GHS LABEL:



Hazard Statements

H227	Combustible liquid
H303	May be harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation
H401	Toxic to aquatic life

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**Precautionary Statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition, sources. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated are.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+352  
+321 IF ON SKIN: Wash with plenty of water and soap.
- P304+340 IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or a doctor/physician if you feel unwell
- P332+313 If skin irritation occurs: get medical advice/attention.
- P333+313 If skin irritation or a rash occurs: Get medical advice/attention.
- P362+364 Take off immediately all contaminated clothing and wash it before reuse.
- P370+378 In case of fire: Use water fog, foam, CO2, dry chemical to extinguish.
- P403 Store in a well ventilated place.
- P403+233 Store in a well ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local, state an federal regulations.

**SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS**

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
2-Ethylhexyl Acrylate	103-11-7	>= 99.5		

**SECTION IV - FIRST AID MEASURES**

**Contact with eyes:** Flush with water for 15 minutes. Seek immediate medical attention.

**Skin contact:** Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritations persist, seek immediate medical attention.

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**Inhalation:** Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention.

**Ingestion:** If swallowed. Do not induce vomiting. Seek immediate medical attention.  
Give large quantities of water. Never give anything by mouth to an unconscious person.

**SECTION V - FIREFIGHTING MEASURES**

**Suitable Extinguishing Media:** Water fog, foam, CO<sub>2</sub>, dry chemical.

**Special Fire Fighting Procedures** Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.

**Unusual Fire Fighting Hazards:** Vapors may travel considerable distances to a source of ignition where they can ignite, flashback or explode. May create vapor/air explosion hazard indoors, outdoors or in sewers. If container is not properly cooled, it can explode in the heat of a fire.  
Heat can cause polymerization.

**SECTION VI - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See SECTION 4, First Aid Measures, for further information.

**Environmental Precautions:** CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water. Do not allow material to contaminate ground water system.

**Methods for Cleaning Up:** Remove all sources of ignition. Ventilate the area. Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Contaminated monomer may be unstable. Add inhibitor to prevent polymerization. Absorbent can act as a contaminant (removes inhibitor) in liquid monomer. Avoid freestanding monomer with absorbent or add inhibitor to stabilize. Dispose of promptly.

**SECTION VII - HANDLING AND STORAGE**

**Handling and Storage:**

- Precautions for safe handling: This material is a severe irritant. May cause sensitization of susceptible persons by skin contact. For personal protection see section 8. Ground all metal containers during storage and handling.

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- Conditions for safe storage: Minor deviations (7C/13F) above the recommended temperature (see below) are acceptable for short periods of time (one week) for material in transit. Store in cool place. Keep away from direct sunlight. Material can burn; limit indoor storage to approved areas equipped with automatic sprinklers. Ground all metal containers during storage and handling. This product contains inhibitor to stabilize it during shipment and storage. The effectiveness of the inhibitor is dependent on the presence of dissolved oxygen. In order to maintain sufficient dissolved oxygen in the liquid to avoid polymerization, the monomer must always be stored with a vapor space oxygen concentration of 5% to 21 % (air). Use monomer within 1 Year to avoid loss of stability or risk of polymerization. Store material in containers made of the following: high density polypropylene Stainless steel polyethylene steel Carbon steel glass Aluminum Keep container tightly closed.

**SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION**

**EXPOSURE LIMITS:**

Component Name	CAS #	OSHA PEL	ACGIH TLV
2-Ethylhexyl Acrylate	103-11-7		

**Engineering Controls:** Use explosion-proof local exhaust ventilation with a minimum capture velocity of 100 ft/min (0.5 m/sec) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and Maintenance of exhaust systems.

**Monitoring:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Personal Protective Equipment (PPE)**

**Eye Protection:** Chemical resistant goggles must be worn. Eye protection worn must be compatible with respiratory protection system employed.

**Skin Protection:** Hand protection: Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may Not provide adequate protection): Polyvinyl chloride Neoprene gloves Rinse and remove gloves immediately after use. Wash hands with soap and Water. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. NOTE: Material is a possible skin sensitizer. Reference: Basic Acrylic Monomer Manufacturers, Inc., "Chemical- Protective Gloves for Acrylic Acid and Acrylate Esters",

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September 1999. Other protection: Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

**Respiratory Protection:** A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Up to 10 times the exposure limit: Wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Up to 50 times the exposure limit: Wear a properly fitted NIOSH approved (or equivalent) full-face piece, air purifying respirator, OR full-face piece, airline respirator in the pressure demand mode. Above 50 times the exposure limit or Unknown: Wear a properly fitted NIOSH approved (or equivalent) self-contained breathing apparatus in the pressure demand mode, OR full face piece, airline respirator in the pressure demand mode with emergency escape provision. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters. NOTE: Contact Rohm and Haas Company for air monitoring method.

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Colorless liquid
Odor	Pleasant Odor
pH@25°C	Not available
Melting/Freezing Point	-90°C
Flashpoint	82°C
Specific Gravity	0.88 g/cu cm at 25°C
Solubility	9.6 mg /l at 25°C
Auto-Ignition Temperature	245 °C
Decomposition Temperature	Not available
VOC Content	
Odor Threshold	0.02 mg/L
Boiling Range	216°C
Evaporation Point	Not available
Flammable Limits - Upper	8.2%
Flammable Limits - Lower	0.7%
Vapor Pressure	17.1 Pa at 20°C
Vapor Density (Air=1)	6.35
Viscosity	Not available

**SECTION X - STABILITY AND REACTIVITY**

**Stability:** Stable, under normal conditions of storage and handling.

**Conditions to Avoid:** Sparks, fire, and extreme temperatures.

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Excessive aging, heat, contamination with polymerization catalysts, oxygen-free atmosphere, inhibitor depletion or ultraviolet light (sunlight) may cause polymerization. An uncontrolled polymerization may produce a rapid release of energy with the potential for an explosion of unvented closed containers. This material is considered stable under specified conditions of storage, shipment and/or use. See SECTION 7, Handling And Storage, for specified conditions.

- Hazardous Decomposition/Byproducts:** There are no known hazardous decomposition products for this material.
- Hazardous Polymerization:** Inhibitor is added to this product to prevent polymerization. However, this material can undergo hazardous polymerization.
- Polymerization Conditions to Avoid:**
- Incompatibilities:** Avoid contact with the following: Acids Bases Oxidizing agents Reducing agents. UV light free radical initiators organic peroxides halogens

**SECTION XI - TOXICOLOGICAL INFORMATION**

- Likely Route of Exposure:** Contact and inhalation; ingestion possible.
- Inhalation:** Can cause damage to nasal and respiratory passages.
- Eye Contact:** May cause slight temporary eye irritation. Corneal injury is unlikely.
- Skin Contact:** Brief contact may cause severe skin irritation with pain and local redness. Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.
- Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
- Acute Toxicity Value:** Acute oral toxicity Low toxicity if swallowed. Swallowing may result in gastrointestinal irritation or ulceration. Swallowing may result in burns of the mouth and throat. LD50, Rat, male and female, 4,435 mg/kg OECD 401 or equivalent Acute dermal toxicity Prolonged skin contact is unlikely to result in absorption of harmful amounts. LD50, Rabbit, 7,522 mg/kg Acute inhalation toxicity Prolonged excessive exposure may cause adverse effects. Excessive exposure may cause severe irritation to upper respiratory tract (nose and throat) and lungs. Signs and symptoms of excessive exposure may include: May cause dizziness and drowsiness. Headache. May cause pulmonary edema (fluid in the lungs.) Effects may be delayed. No deaths occurred following exposure to a saturated atmosphere. LC50, Rat, male and female, 8 Hour, Vapour, > 1.19 mg/l

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Chronic (Long Term) Effects: See Health Hazards above.

**Toxicity:**

Component Name	LD50	LC50
2-Ethylhexyl Acrylate	Oral Rat: 4,435 mg/kg / Dermal rabbit: 7,522 mg/kg	Inhalation Rat: 8 hour, Vapour, > 1.19 mg/l

Reproductive Effects	Not classified
Teratogenicity	Not Applicable
Mutagenicity	Not Classified
Embryotoxicity	Not Applicable
Sensitization to Product	Not Applicable
Synergistic Products	Not Applicable
Carcinogenicity	Not Classified

**SECTION XII - ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	Acute toxicity to fish Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested). LC50, <i>Oncorhynchus mykiss</i> (rainbow trout), semi-static test, 96 Hour, 1.81 mg/l, OECD Test Guideline 203 or Equivalent Acute toxicity to aquatic invertebrates EC50, <i>Daphnia magna</i> (Water flea), static test, 48 Hour, 1.3 mg/l, OECD Test Guideline 202 or Equivalent Acute toxicity to algae/aquatic plants ErC50, <i>Desmodesmus subspicatus</i> (green algae), static test, 72 Hour, Growth rate inhibition, 1.71 mg/l, OECD Test Guideline 201 or Equivalent
<b>Mobility:</b>	Mobility in soil Partition coefficient(K <sub>oc</sub> ): 429
<b>Degradability:</b>	Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. 10-day Window: Pass Biodegradation: 70 - 80 % Exposure time: 15 d
<b>BioAccumulation:</b>	Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Partition coefficient: n-octanol/water(log Pow): 4 at 25 °C Bioconcentration factor (BCF): 270 - 282 Fish. Estimated.

**SECTION XIII - WASTE DISPOSAL CONSIDERATIONS**

Disposal methods: After the addition of excess inhibitor, incinerate liquid and contaminated diking material in accordance with local, state, and federal regulations. / Contaminated Packaging: Dispose of as unused product. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all SDS and label warnings even after container is emptied. Do not bur, or use a cutting torch on the empty drum. Pursue safe, legal methods of recycle of empty containers. Improper disposal or re-use of this container may be dangerous and illegal. Refer to applicable local, state and federal regulations

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SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: Combustible liquid, n.o.s.  
Contains: 2-Ethylhexyl acrylate  
Hazard Class and Label: CBL  
Identification Number: NA 1993  
Packaging Group: III  
Other Shipping Info:

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: The components of this product are listed on the TSCA Inventory

SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:  
No chemicals in this material are subject to the reporting requirements.

SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

Acute	Chronic	Fire	Pressure	Reactive
X	X	X		X

SARA TITLE III SECTION 313 SUPPLIER INFORMATION:  
No chemicals in this material are subject to the reporting requirements.

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:  
No chemicals in this material are subject to the reporting requirements.

CALIFORNIA PROPOSITION 65:  
No chemicals in this material are subject to the reporting requirements.

SECTION XVI - OTHER INFORMATION

HMIS Health: ..... 3  
HMIS Flammability: ..... 2  
HMIS Reactivity: ..... 2

Additional: IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use,



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#### Disclaimer:

All products should be used in accordance with state, federal and local laws.