



Section 1. Product and Company Identification

**Product Name** 2-Hydroxyethyl Acrylate  
**CAS Number** 818-61-1

**Parchem - fine & specialty chemicals**  
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EMERGENCY RESPONSE NUMBER  
 CHEMTEL  
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 Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity, Oral (Category 4), H302  
 Acute toxicity, Dermal (Category 3), H311  
 Skin corrosion (Category 1B), H314  
 Serious eye damage (Category 1), H318  
 Skin sensitization (Category 1), H317  
 Acute aquatic toxicity (Category 1), H400

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard Statements**

H302 Harmful if swallowed.  
 H311 Toxic in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H400 Very toxic to aquatic life.

**Precautionary Statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink, or smoke when using this product.



- 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.
- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.
- P391 Collect spillage.
- P405 Store locked up.
- P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** None

Section 3. Composition / Information on Ingredients

**Common Name** 2-Hydroxyethyl Acrylate  
**Formula** C<sub>5</sub>H<sub>8</sub>O<sub>3</sub>  
**Synonyms** 2HEA; 2-HEA; Hydroxyethyl Acrylate  
**CAS Number** 818-61-1

COMPONENT	CAS NUMBER	CONCENTRATION
2-Hydroxyethyl Acrylate	818-61-1	98.11%
Acrylic Acid	79-10-7	0.5%
Water	7732-18-5	0.15%
Ethylene Di(acetate)	111-55-7	0.7%
Hexanedioic acid, dimethyl ester, mixt. with dimethyl butanedioate and dimethyl pentanedioate	95481-62-2	0.5%
Mequinol	150-76-5	0.04%

Section 4. First Aid Measures

**Description of first-aid measures**

**General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.



**Skin contact** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling and/or in section 11.

**Indication of any immediate medical attention and special treatment needed:** No data available

#### Section 5. Firefighting Measures

##### **Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** Carbon oxides

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** No data available

#### Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13.

#### Section 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 2 - 8°C

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects



Section 8. Exposure Controls / Personal Protection

**Control parameters**

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

**Exposure controls**

**Appropriate engineering controls:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**Personal protective equipment**

**Eye/face protection:** Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

**Appearance**

**Form:** Liquid

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** No data available

**Melting point/freezing point:**  $< -59.99^{\circ}\text{C}$  ( $< -75.98^{\circ}\text{F}$ )

**Initial boiling point and boiling range:**  $90 - 92^{\circ}\text{C}$  ( $194 - 198^{\circ}\text{F}$ )

**Flash point (Open Cup):**  $99^{\circ}\text{C}$

**Evaporation rate:** No data available

**Flammability (solid, gas):** No data available

**Upper/lower flammability or explosive limits**

**Lower explosion limit:** 1.8%(V)



**Vapor pressure:** < 0.13 hPa (< 0.10 mmHg) at 20°C (68°F)  
**Vapor density:** No data available  
**Relative density:** 1.0110 g/cm<sup>3</sup>  
**Water solubility:** 1,000 g/l at 20°C (68°F) - soluble  
**Partition coefficient (n-Octanol/water):** log Pow: -0.169 at 25 °C (77 °F)  
**Auto-ignition temperature:** 370°C (698°F) at 1,013.25 hPa (760.00 mmHg)  
**Decomposition temperature:** No data available  
**Viscosity:** No data available  
**Explosive properties:** No data available  
**Oxidizing properties:** No data available

**Other safety information:** No data available

#### Section 10. Stability and Reactivity

**Reactivity:** No data available  
**Chemical stability:** Stable under recommended storage conditions.  
Contains the following stabilizer(s): Mequinol (>=200 - <=650 ppm)  
**Possibility of hazardous reactions:** No data available  
**Conditions to avoid:** No data available  
**Incompatible materials:** No data available

#### Hazardous decomposition products

**Other decomposition products:** No data available  
In the event of fire: see section 5

#### Section 11. Toxicological Information

##### Information on toxicological effects

###### Acute toxicity

LD50 Oral - Rat - male and female - 960.5 mg/kg (OECD Test Guideline 401)

**Inhalation:** No data available

**Dermal:** No data available

###### Skin corrosion/irritation

Skin - Rabbit

Result: Causes burns.

###### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Corrosive

###### Respiratory or skin sensitization

Maximization Test (GPMT) - Guinea pig

Result: May cause sensitization by skin contact.



### Germ cell mutagenicity

Salmonella typhimurium

Result: negative

Rat - male and female

Result: negative

### Carcinogenicity

**IARC:** No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure:** No data available

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available

### Additional Information

RTECS: Not available

Stomach - Irregularities - Based on Human Evidence (Mequinol)

### Section 12. Ecological Information

#### Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 4.8 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 0.78 mg/l - 48 h

Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata (green algae) - 6 mg/l - 72 h (OECD Test Guideline 201)

#### Persistence and degradability

Biodegradability Biotic/Aerobic - Exposure time 28 d

Result: 79 % - Readily biodegradable

(OECD Test Guideline 301B)

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.



Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT (US)**

**UN number:** 2922

**Class:** 8 (6.1)

**Packing group:** II

**Proper shipping name:** Corrosive liquids, toxic, n.o.s. (2-Hydroxyethyl acrylate)

**Poison Inhalation Hazard:** No

**IMDG**

**UN number:** 2922

**Class:** 8 (6.1)

**Packing group:** II

**EMS-No:** F-A, S-B

**Proper shipping name:** Corrosive Liquid, Toxic, N.O.S. (2-Hydroxyethyl acrylate)

**Marine pollutant:** yes

**IATA**

**UN number:** 2922

**Class:** 8 (6.1)

**Packing group:** II

**Proper shipping name:** Corrosive liquid, toxic, n.o.s. (2-Hydroxyethyl acrylate)

Section 15. Regulatory Information

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard

**Massachusetts Right to Know Components**

2-Hydroxyethyl acrylate (CAS-No. 818-61-1)

Revision Date: 1993-04-24

**Pennsylvania Right to Know Components**

2-Hydroxyethyl acrylate (CAS-No. 818-61-1)

Revision Date: 1993-04-24



**New Jersey Right to Know Components**

2-Hydroxyethyl acrylate (CAS-No. 818-61-1)

Revision Date: 1993-04-24

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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