

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: ETHYL ACRYLATE
 CAS#: 140-88-5
 Synonym: Not Available.
 Chemical Name: Ethyl Acrylate
 Chemical Formula: C₅H₈O₂

Composition and Information on Ingredients

Name	S.K.U	% by Weight
ETHYL ACRYLATE	GCS-9846	100

Hazards Identification

Potential Acute Health Effects:

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Hazardous in case of skin contact (permeator). Slightly hazardous in case of skin contact (corrosive). Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Classified + (PROVEN) by NIOSH. Classified A2 (Suspected for human.) by ACGIH, 2 (Reasonably anticipated.) by NTP. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

No known effect on skin contact, rinse with water for a few minutes.

Serious Skin Contact: Not available.

Inhalation:

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 355°C (671°F)

Flash Points: CLOSED CUP: -2°C (28.4°F). OPEN CUP: 9°C (48.2°F).

Flammable Limits: LOWER: 1.4% UPPER: 13%

Products of Combustion: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances: Flammable in presence of open flames and sparks.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Flammable liquid, soluble or dispersed in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use alcohol foam, water spray or fog. Special Remarks on Fire Hazards: Not Available. Special Remarks on Explosion Hazards: Not Available.

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Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:

Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities

Handling and Storage

Precautions:

Keep locked up Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from direct sunlight or strong incandescent light. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Never add

water to this product. Avoid shock and friction. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage:

Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place.

Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 25 (ppm) TWA: 100 (mg/m³) Consult local authorities for acceptable exposure limits.

Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor : Penetrating Lachrymator (Strong.)

Taste : Not available.

Molecular Weight : 130.16 g/mole

Color : Colorless to light yellow.

pH (1% soln/water) : Not available.

Boiling Point : 99.4°C (210.9°F)

Melting Point : -72°C (-97.6°F)

Critical Temperature : Not available.

Specific Gravity : 0.923 (Water = 1)

Vapor Pressure : 29.3 mm of Hg (@ 20°C)

Vapor Density : 3.45 (Air = 1)

Volatility : Not available.

Odor Threshold : Not available.

Water/Oil Dist. Coeff. : Not available.

Ionicity (in Water) : Not available.
Dispersion Properties : See solubility in water.
Solubility : Partially soluble in cold water.

Stability and Reactivity Data

Stability: The product is stable. Instability Temperature: Not available.
Conditions of Instability: Not available.
Incompatibility with various substances:
The product may undergo hazardous decomposition, condensation or polymerization, it may react violently with water to emit toxic gases or it may become self-reactive under conditions of shock or increase in temperature or pressure.

Corrosivity:
Non-corrosive in presence of glass.

Special Remarks on Reactivity: May undergo autopolymerization.
Special Remarks on Corrosivity: Not available.

Polymerization: No.

Toxicological Information

Routes of Entry:
Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 800 mg/kg [Rat]. Acute toxicity of the vapor (LC50): 1414 ppm 4 hour(s) [Rat].

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: Classified + (PROVEN) by NIOSH. Classified A2 (Suspected for human.) by ACGIH, 2 (Reasonably anticipated.) by NTP.
Other Toxic Effects on Humans:
Very hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).
Hazardous in case of skin contact (permeator). Slightly hazardous in case of skin contact (corrosive).

Special Remarks on Toxicity to Animals: Not Available.

Special Remarks on Chronic Effects on Humans: Not Available.
Special Remarks on other Toxic Effects on Humans: Not Available.

Toxicological Data on Ingredients: Ethyl acrylate: ORAL (LD50): Acute: 800 mg/kg [Rat]. VAPOR (LC50): Acute: 1414 ppm 4 hour(s) [Rat].

Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Disposal Considerations

Waste Disposal:

Transformation Information

Land transport (ADR-RID)

Proper shipping name: ETHYL ACRYLATE, STABILIZED

UN N°: 1917

H.I. nr: 339

ADR - Class: 3

Labelling - Transport: 3 : Flammable liquid.

ADR - Group: II

Sea transport (IMDG) [English only]

Proper shipping name: ETHYL ACRYLATE, STABILIZED

UN N°: 1917

IMO-IMDG - Class or division: 3 : Flammable liquid.

IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: ETHYL ACRYLATE, STABILIZED

UN N°: 1917

IATA - Class or division: 3 : Flammable liquid.

IATA - Packing group: II

Other Regulatory Information

Federal and State Regulations:

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Ethyl acrylate
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethyl acrylate
Rhode Island RTK hazardous substances: Ethyl acrylate
Pennsylvania RTK: Ethyl acrylate
Florida: Ethyl acrylate
Minnesota: Ethyl acrylate
Massachusetts RTK: Ethyl acrylate
New Jersey: Ethyl acrylate
TSCA

8(b) inventory: Ethyl acrylate
SARA 313 toxic chemical notification and release reporting: Ethyl acrylate.

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS F: Dangerously reactive material.

DSCL (EEC): R11- Highly flammable. R20/22- Harmful by inhalation and if swallowed.

R37/38- Irritating to respiratory system and skin. R41- Risk of serious damage to eyes. R45- May cause cancer.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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