



Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: Ethyl acrylate **Molecular Formula:** C₅H₈O₂
Catalog Number: M-108
Company: Scientific Polymer Products, Inc.
6265 Dean Parkway
Ontario, NY 14519
Telephone: 585/265-0413
Fax: 585/265-1390
Website: www.scipoly.com
Emergency Phone Number: 800-255-3924 (CHEM TEL)

Section 2: Hazards Identification

Classification of the substance or mixture

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

Flammable liquids, Category 2, H225
Acute toxicity, Oral, Category 4, H302
Acute toxicity, Inhalation, Category 3, H331
Acute toxicity, Dermal, Category 4, H312
Skin irritation, Category 2, H315
Eye irritation, Category 2A, H319
Skin sensitization, Category 1, H317
Specific target organ toxicity-single exposure, Category 3, Respiratory system, H335
Acute aquatic toxicity, Category 2, H401
Chronic aquatic toxicity, Category 3, H412

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H331 Toxic if inhaled.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
H401 Toxic to aquatic life.

Precautionary statement(s)	
P271	Use only outdoors or in a well ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/gas/mist/vapors.
P243	Take precautionary measures against static discharge.
P273	Avoid release to the environment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P242	Use only non-sparking tools.
P240	Ground/bond container and receiving equipment.
P333+P311	If skin irritation or rash occurs: call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P303+P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P301+P330	IF SWALLOWED: Rinse mouth.
P362+P364	Take off contaminated clothing and wash before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P311	If eye irritation persists: Call a POISON CENTER or doctor/physician.
P370+P378	In case of fire: Use...to extinguish.
P403+P235	Store in a well ventilated place. Keep cool.
P233	Keep container tightly closed.
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

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Section 3: Composition/Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Ethyl acrylate	140-88-5	100

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.

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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 (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire-Fighting Measures**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

No data available

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Use water spray to cool unopened containers

Section 6: Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low 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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13)

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. Use explosion-proof equipment. Keep away from sources of ignition-No smoking. Take measure to prevent the buildup of electrostatic charge. For precautions see section 2.

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

Do not store under inert atmosphere. Polymerization can occur

Storage class (TRGS 510): Flammable liquids

Specific end use(s)

Laboratory chemicals, Manufacture of substances

Section 8: Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

Component	CAS No.	Value	Control parameters	Basis
Ethyl acrylate	140-88-5	TWA	5 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central nervous system impairment Upper respiratory tract irritation Eye irritation Skin sensitization Gastrointestinal irritation Not classifiable as a human carcinogen		
		TWA	5 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central nervous system impairment Upper respiratory tract irritation Eye irritation Skin sensitization Gastrointestinal irritation Not classifiable as a human carcinogen		
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central nervous system impairment Upper respiratory tract irritation Eye irritation Skin sensitization Gastrointestinal irritation Not classifiable as a human carcinogen		
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central nervous system impairment Upper respiratory tract irritation Eye irritation Skin sensitization Gastrointestinal irritation Not classifiable as a human carcinogen		
		TWA	25 ppm 100 mg/m3	USA. Occupational Exposure Limits (OSHA)- Table Z-1 Limits for Air Contaminants
		Skin designation The value in mg/m3 is approximate		
		Potential Occupational Carcinogen		
		PEL	5 ppm 20 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		
		STEL	25 ppm 100 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

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

Face shield and safety glasses. 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. Flame retardant antistatic protective clothing. 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 multi-purpose 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 of 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

a)	Appearance	Form: Liquid
b)	Odor	Pungent
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	9° C (48° F)- Closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Flammability or explosive limits	
	Upper	No data available
	Lower	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	372° C (702° F) @ 760.00 mmHg
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	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.

Possibility of hazardous reactions

Vapors may form explosive mixture with air

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Oxidizing agents, peroxides

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions- Carbon oxides

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-1,120 mg/kg

LC50 Inhalation-Rat-4 h < 9 mg/l

LD50 Dermal-Rabbit- 1,800 mg/kg

Skin corrosion/irritation

Skin-Rabbit

Result: Irritating to skin-4 h

(OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes-Rabbit

Result: Irritating to eyes-72 h

(Draize test)

Respiratory or skin sensitization

Mouse

May cause sensitization by contact

(OECD Test Guideline 429)

Germ cell mutagenicity

Reverse mutation assay

Salmonella typhimurium

Result: Negative

OECD Test Guideline 474

Mouse-male

Result: Negative

Carcinogenicity

IARC: 2B-Group 2B: Possibly carcinogenic to human (Ethyl acrylate)

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

Inhalation- May cause respiratory irritation

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: AT0700000

Section 12: Ecological Information**Toxicity**

Toxicity to fish	LC50-Pimephales promelas (Fathead minnow)-2.5 mg/l-96 h Flow-through test LC50-Cyprinodon variegatus(Sheepshead minnow)-2 mg/l-96 h
Toxicity to daphnia and Other aquatic Invertebrates	Flow-through test EC50- Daphnia magna (Water flea)-7.9 mg/l-48 h
Toxicity to algae	Growth inhibition EC50- Pseudokirchneriella subcapitata -5.5 mg/l- 96 h (OECD Test Guideline 201)

Persistence and degradability

Biodegradability Aerobic- Exposure time 28 d
Result: 80-90% - Readily biodegradeable
(OECD Test Guideline 310)

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. Toxic to aquatic life.

Section 13: Disposal Considerations**Waste treatment methods****Product**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional and national hazardous waste regulations to ensure complete and accurate classification.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information**DOT (US)**

UN number: 1917 Class: 3 Packing group: II
Proper shipping name: Ethyl acrylate, stabilized
Reportable Quantity (RQ): 1000 lbs
Poison Inhalation Hazard: No

IMDG

UN number: 1917 Class: 3 Packing group: II
 Proper shipping name: Ethyl acrylate, stabilized

IATA

UN number: 1917 Class: 3 Packing group: II
 Proper shipping name: Ethyl acrylate, stabilized

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

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ethyl acrylate	CAS No. 140-88-5
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SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

Ethyl acrylate	CAS No. 140-88-5
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Pennsylvania Right To Know Components

Ethyl acrylate	CAS No. 140-88-5
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New Jersey Right To Know Components

Ethyl acrylate	CAS No. 140-88-5
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California Prop. 65 Components

WARNING! This product contains a chemical Known to the state of California to cause cancer.	CAS No.
Ethyl acrylate	140-88-5

Section 16: Other Information**HMIS Rating**

Health:	2
Flammability:	3
Reactivity:	0

NFPA Rating

Health:	2
Flammability:	3
Reactivity:	0

This material is intended for laboratory use only. It is not sold or intended for drug, household or other uses. The information represents the most accurate and complete data currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.