



Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: 2-Methoxyethyl acrylate **Molecular Formula:** C₆H₁₀O₃
Catalog Number(s): M-161
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 3, H226
Acute toxicity, Oral, Category 4, H302
Acute toxicity, Inhalation, Category 3, H331
Acute toxicity, Dermal (Category 3), H311
Skin corrosion, Category 1C, H314
Skin sensitization, Category 1, H317
Reproductive toxicity, Category 1B, H360
Specific target organ toxicity- repeated exposure, Oral-Category 2, Blood, Testes, Epididymus, H373
Chronic aquatic toxicity, Category 3, H412

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H226 Flammable liquid and vapor.
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.
H331 Toxic if inhaled.
H360 May damage fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/lighting/equipment.
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.
P271	Use only outdoors or in a well ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311	Call a POISON CENTER or doctor/physician.
P321	Specific treatment.
P330	Rinse mouth.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P362	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use dry extinguishing powder, foam, carbon dioxide (CO ₂) to extinguish.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P403+P235	Store in a well ventilated place. Keep cool.
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 (%)
2-Methoxyethyl acrylate	3121-61-7	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 air. If not breathing, give artificial respiration. Consult a physician.

In case of 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.

In case of eye contact

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

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

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. 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. 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. Keep away from sources of ignition- No smoking. Take measures 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.

Light sensitive. Heat sensitive.

Storage temperature >35°C

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

Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters.

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 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	Strong ester odor
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-45° C (-49° F)
f)	Initial boiling point and boiling range	164° C (327.2° F)
g)	Flash point	60° C (140° 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	281 Pa @ 25° C (77° F)
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	144g/L at 20° C (in water)
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
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

It easily polymerizes by heating, light, moisture, peroxide and the iron rust, etc. The temperature rises when the polymerization advances rapidly. As a result, the vapor pressure rises accelerating, and there is danger of exploding.

Conditions to avoid

Heat, flames and sparks

Incompatible materials

Strong oxidizing agents, Polymerizing initiators

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**Acute toxicity**

LD50 Oral- Rat- 405 mg/kg
(OECD Test Guideline 401)

LC50 Inhalation- Rat-male- 4 h- > 2.7 mg/l
(OECD Test Guideline 403)

LD50 Dermal-Rabbit-253 mg/kg
(OECD Test Guideline 402)

Skin Corrosion/Irritation

Skin-Rabbit

Result: Corrosive, Category 1C- Where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.
(OECD Test Guideline 404)

Serious Eye Damage/Eye Irritation

Eyes-Rabbit

Result: Corrosive
(OECD Test Guideline 405)

Respiratory or Skin Sensitization

In vivo assay- Mouse

Result: May cause sensitization by skin contact.
(OECD Test Guideline 429)

Germ Cell Mutagenicity

No data available

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.

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

Presumed human reproductive toxicant. May damage fertility. May damage the unborn child.

Specific Target Organ Toxicity – Single Exposure

No data available

Specific Target Organ Toxicity – Repeated Exposure

Oral- May cause damage to organs through prolonged or repeated exposure. Blood, Testes, Epididymus

Aspiration Hazard

No data available

Additional Information:

RTECS: KL6000000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

Toxicity

Toxicity to daphnia and other aquatic Invertebrates EC50- Daphnia magna (Water flea)- 6.7 mg/l - 48 h (OECD Test Guideline 202)
NOEC- daphnia magna (Water flea)- 0.19 mg/l- 21 d
Remarks: Read-across (Analogy)

Persistence & Degradability

Biodegradability Result: 100%- Readily biodegradable

Bioaccumulation Potential

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected

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

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

DOT (US)

UN number: 2924 Class: 3(8) Packing group: III
Proper shipping name: Flammable liquids, corrosive, n.o.s. (2-Methoxyethyl acrylate)
Poison Inhalation Hazard: No

IMDG

UN number: 2924 Class: 3(8) Packing group: III
Proper shipping name: Flammable liquids, corrosive, n.o.s. (2-Methoxyethyl acrylate)

IATA

UN number: 2924 Class: 3(8) Packing group: III
Proper shipping name: Flammable liquids, corrosive, n.o.s. (2-Methoxyethyl 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

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right To Know Components

2-Methoxyethyl acrylate	CAS No. 3121-61-7
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New Jersey Right To Know Components

2-Methoxyethyl acrylate	CAS No. 3121-61-7
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California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Section 16: Other Information

HMIS Rating

Health:	3
Flammability:	2
Reactivity:	0

NFPA Rating

Health:	3
Flammability:	2
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.