

Scientific Polymer Products, Inc.

www.scipoly.com

SAFETY DATA SHEET

Revision Date: 08/08/24

	Section 1: Identifie	cation		
PRODUCT AND COMPAN	IY INFORMATION			
Product Name:	2,3-Epoxypropyl methacrylate	Molecular Formula:	$C_7H_{10}O_3$	
Catalog Number(s):	M-128			
Company:	Scientific Polymer Products, Inc. 6265 Dean Parkway Ontario, NY 14519			
Telephone: Fax: Website:	585/265-0413 585/265-1390 www.scipoly.com			
	000 2EE 2024 (CLIENA TEL)			

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 4, H227 Acute toxicity, Oral, Category 4, H302 Acute toxicity, Dermal, Category 3, H311 Skin corrosion, Category 1C, H314 Serious eye damage, Category 1, H318 Skin sensitization, Category 1, H317 Germ cell mutagenicity, Category 2, H341 Carcinogenicity, Category 1B, H350 Reproductive toxicity, Category 1B, H360 Specific target organ toxicity – single exposure -Inhalation, Category 1, Respiratory Tract, H370

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)	
H227	Combustible liquid.
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.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child
H370	Causes damage to organs (Respiratory Tract) if inhaled

Precautionary statement(s) P201 Obt

Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260	Do not breathe 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.
P280	Wear protective gloves/eye protection/face protection.
P281	Use personal protective equipment as required.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for
	breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P307+P311	IF exposed or if you feel unwell: Call a POSION CENTER or doctor/physician.
P310	Immediately call a POISON CENTER or doctor/physician.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
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 (%)
2,3-Epoxypropyl methacrylate	106-91-2	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

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). 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.

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.

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
2,3-Epoxypropyl methacrylate	106-91-2	TWA	0.5 ppm	USA. Workplace Environmental
methaerylate				Exposure Levels (WEEL)

Remarks:	Skin
	Dermal Sensitization Notation

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.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

 a) Appearance b) Odor c) Odor Threshold d) pH e) Melting point/freezing point f) Initial boiling point and boiling range g) Flash point h) Evaporation rate i) Flammability (solid, gas) j) Flammability or explosive limits Upper Lower k) Vapor pressure l) Vapor density m) Relative density n) Water solubility o) Partition coefficient: n- octanol/water p) Auto-ignition temperature q) Decomposition temperature r) Viscosity s) Explosive properties t) Oxidizing properties 	Form: Liquid Pungent No data available No data available No data available No data available ~167° F (75° C)(closed cup) No data available No data available No data available No data available No data available O.954 @ 25° C (77° F) Negligible No data available No data available
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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 No data available

Conditions to avoid Heat , flames and sparks

Incompatible materials Strong oxidizing agents, strong acids and strong bases, 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

Acute toxicity

LD50 Oral- Rat- 597 mg/kg

Inhalation: No data available

LD50 Dermal – rabbit – 480 mg/kg

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: Risk of serious damage to eyes -7 d

Respiratory or Skin Sensitization No data available

Germ Cell Mutagenicity In vitro tests showed mutagenic effects

Carcinogenicity:

Possible human carcinogen

- 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 NTP.
- NTP: 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 NTP.
- OSHA: 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 OSHA.

Reproductive Toxicity

No data available

Specific Target Organ Toxicity – Single Exposure

Inhalation- The substance or mixture is classified as specific target organ toxicant, single exposure, category 1-Respiratory Tract

Specific Target Organ Toxicity – Repeated Exposure No data available

Aspiration Hazard

No data available

Additional Information:

RTECS: Not available

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

	Section 12: Ecological Information
Toxicity Toxicity to fish	Semi static test LC50-Oryzias latipes - 5.7 mg/l -96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Semi-static test EC50- Daphnia magna (Water flea) – 24.9 mg/l – 48 h (OECD Test Guideline 202)
Toxicity to algae	Static test IC50- Selenastrum capricornutum (Green algae) – 14.6 mg/l – 72 h
Persistence & Degradability Biodegradability	Aerobic biochemical oxygen demand – Exposure time 28 d Result: 94% - Readily biodegradeable (OECD Test Guideline 301C)
Bioaccumulation 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

No data available

Section 13: Disposal Considerations

Waste treatment methods

Product

Offer surplus and no-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

DOT (US)

UN number: 3265 Class: 8 Packing group: III Proper shipping name: Corrosive liquids, acidic, organic, n.o.s. (2,3-Epoxypropyl methacrylate) Poison Inhalation Hazard: No

IMDG

UN number: 3265 Class: 8 Packing group: III Proper shipping name: Corrosive liquids, acidic, organic, n.o.s. (2,3-Epoxypropyl methacrylate) Marine pollutant: No

ΙΑΤΑ

UN number: 3265 Class: 8 Packing group: III Proper shipping name: Corrosive liquids, acidic, organic, n.o.s. (2,3-Epoxypropyl methacrylate)

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

Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard, Fire Hazard

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right-to-Know Act.

Pennsylvania Right to Know Components

	CAS No.
2,3-Epoxypropyl methacrylate	106-91-2
Oxirane, (chloromethyl)-	106-89-8

New Jersey Right to Know Components

No components are subject to the New Jersey Right-to-Know Act.

California Prop. 65 Components

WARNING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

Oxirane, (chloromethyl)-		CAS No. 106-89-8		
		Section 16: Other Informati	on	
HMIS Rating	2	NFPA Rating	2	
Health:	2	Health:	2	
Flammability:	2	Flammability:	2	
Reactivity:	0	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.