# SAFETY DATA SHEET

Revision Date: 02/07/23

## Section 1: Identification

**PRODUCT AND COMPANY INFORMATION**

**Product Name:** Ethyl methacrylate **Molecular Formula:** $C_6H_{10}O_2$

**Catalog Number(s):** M-112

**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
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

**GHS Label elements, including precautionary statements**

Pictogram

Signal word Danger

Hazard statement(s)

| | |
|---|---|
| H225 | Highly flammable liquid and vapor. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

Precautionary statement(s)

| | |
|---|---|
| P210 | Keep away from heat/sparks/open flames/hot surface – No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray. |
| P264 | Wash skin thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective gloves/eye protection/face protection. |

| | |
|---|---|
| P303+P361+P353 | IF ON SKIN (or hair), remove/take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+P340+P312 | IF INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333+P313 | If skin irritation or rash occurs, get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P370+P378 | In case of fire, use dry sand, dry chemical or alcohol-resistant foam for extinction. |
| 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** – Lachrymator

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 methacrylate | 97-63-2 | 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**
Wash off with soap and plenty of water. 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**
Use personal protective equipment. 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.

**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 measures to prevent the build up 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

Light sensitive. Heat sensitive.

**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**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**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 | Not available |
| 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 | 60°F |
| 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 | 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**
Vapors may form explosive mixture with air.

**Conditions to avoid**
Heat, flames and sparks

**Incompatible materials**
Strong oxidizing agents, Strong acids, Strong bases

**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 – 13,424mg/kg

LC50 Inhalation – Rat – 4 h – 8,300 ppm
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear and Taste): Olfaction: Other changes. Sense Organs and Special Senses (Nose, Eye, Ear and Taste): Eye: Other. Lungs, Thorax or Respiration: Dyspnea.

Dermal: No data available

**Skin Corrosion/Irritation**
No data available

**Serious Eye Damage/Eye Irritation**
No data available

**Respiratory or Skin Sensitization**
No data available

**Germ Cell Mutagenicity**
Hamster
Fibroblast
Result: Negative

Mutagenicity (micronucleus test)
Mouse – male and female
Result: Negative

**Carcinogenicity:**
IARC: No component of this product present at levels greater than or equal to 0.1% is identified 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**
No data available

**Specific Target Organ Toxicity – Single Exposure**
May cause respiratory irritation.

**Specific Target Organ Toxicity – Repeated Exposure**
No data available

**Aspiration Hazard**
No data available

**Additional Information:**
Repeated dose toxicity
Rat – female – Gavage – NOAEL: 300 mg/Kg
Rat – male – Gavage – NOAEL: 30 mg/Kg
Rat – male and female – Inhalation – NOAEL: 310 mg/Kg

RTECS: OZ4550000

Cough, Shortness of breath, Headache, Nausea, Vomiting. 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 | flow through test LC50 – Salmo gairdneri - 100 mg/l – 96h<br>(OECD Test Guideline 203) |
| Toxicity to daphnia and other aquatic invertebrates | flow through test EC50 – Daphnia (Water flea) – > 66 mg/l – 48h |
| Toxicity to algae | EC50 – Pseudokirchneriella subcapitata (green algae) – > 110 mg/l – 72 h<br>(OECD Test Guideline 201) |

**Persistence & Degradability**

| | |
|---|---|
| Biodegradability | Biotic/Aerobic<br>Result: 79.10% - Readily biodegradable |

**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**
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 no-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: 2277 Class: 3 Packing group: II
Proper shipping name: Ethyl methacrylate, stabilized
Reportable Quantity (RQ): 1000lbs.
Poison Inhalation Hazard: No

**IMDG**
UN number: 2277 Class: 3 Packing group: II
Proper shipping name: Ethyl methacrylate, stabilized

**IATA**
UN number: 2277 Class: 3 Packing group: II
Proper shipping name: Ethyl methacrylate, 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**
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

**Massachusetts Right To Know Components**

| | CAS No. |
|---|---|
| Ethyl methacrylate | 97-63-2 |

**Pennsylvania Right To Know Components**

| | CAS No. |
|---|---|
| Ethyl methacrylate | 97-63-2 |

**New Jersey Right To Know Components**

| | CAS No. |
|---|---|
| Ethyl methacrylate | 97-63-2 |

**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** | | **NFPA Rating** | |
|---|---|---|---|
| Health: | 2 | Health: | 2 |
| Flammability: | 3 | Flammability: | 3 |
| 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.