



Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: Triethylene glycol dimethacrylate **Molecular Formula:** C₁₄H₂₂O₆
Catalog Number(s): M-199
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)
Skin sensitization, Sub-Category 1B, H317

GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H317 May cause an allergic skin reaction.

Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
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 (%) |
|-----------------------------------|------------|-------------------|
| Triethylene glycol dimethacrylate | 109-16-0 | 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.

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

Flush eyes with water as a precaution.

If swallowed

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. 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

Soak up with inert absorbent material and dispose of as hazardous waste. 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. For precautions see section 2

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well ventilated place.

Recommended storage temperature 2 – 8° C

Light sensitive

Storage class (TRGS 510): Combustible 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**

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**

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. 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 or 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 | Acrylates (slight) |
| 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 | >201° F (94° C)(Pensky-Martens closed cup) |

| | | |
|----|--|-----------------------|
| h) | Evaporation rate | No data available |
| i) | Flammability (solid, gas) | No data available |
| j) | Upper/lower flammability or explosive limits | No data available |
| k) | Vapor pressure | No data available |
| l) | Vapor density | No data available |
| m) | Relative density | 1.070 (25° C (77° F)) |
| n) | Water solubility | Negligible |
| 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

No data available

Conditions to avoid

May polymerize on exposure to light

Incompatible materials

Strong bases, Strong oxidizing agents

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

Oral: Practically non-toxic. (Rat) LD50 > 10,000 mg/kg

Inhalation: 4 h Acute toxicity estimate > 40 mg/l

Dermal: Not irritating (Rabbit)

Skin corrosion/irritation

May cause an allergic skin reaction. Guinea pig maximization test. (Guinea pig) Skin allergy was observed

Serious eye damage/eye irritation

Not irritating (Rabbit)

Respiratory or skin sensitization

No data available

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.
- 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

Reproductive/Developmental Effects Screening Assay. Oral(Rat)/ No birth defects were observed

Specific target organ toxicity- single exposure (GHS)

No data available

Specific target organ toxicity- repeated exposure (GHS)

Sub-chronic dermal administration to Mouse/ signs: Local irritation / No adverse systemic effects reported

Repeated oral administration oral administration to Rat/ signs: changes in body weight, changes in organ weights/ No adverse systemic effects reported

Aspiration hazard

No data available

Additional Information

Cross sensitization reactions may occur with related materials

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-Danio rerio (Zebra fish) – 16.4 mg/l-96 h
(OECD Test Guideline 203)

Toxicity to algae Growth inhibition EC50-Pseudokirchneriella subcapitata (Green algae) – 72.8 mg/l- 72 h
(OECD Test Guideline 201)

Persistence and degradability

Biodegradability Aerobic –Exposure time 28 d
Result: 85%- Readily biodegradable
(OECD Test Guideline 301B)

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. Harmful to aquatic life.

Section 13: Disposal Considerations

Waste treatment methods

Product

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)

| | | |
|--|----------|--------------------|
| NA-Number: 3334 | Class: 9 | Packing group: III |
| Proper shipping name: Aviation regulated liquid, n.o.s.(Triethylene glycol dimethacrylate) | | |
| Poison Inhalation Hazard: No | | |

IMDG

Not dangerous goods

IATA

| | | |
|--|----------|--------------------|
| NA-Number: 3334 | Class: 9 | Packing group: III |
| Proper shipping name: Aviation regulated liquid, n.o.s.(Triethylene glycol dimethacrylate) | | |

| |
|---|
| 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

No SARA Hazards

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

| | |
|-----------------------------------|---------------------|
| Triethylene glycol dimethacrylate | CAS-No. 109-16-0 |
|-----------------------------------|---------------------|

New Jersey Right To Know Components

| | |
|-----------------------------------|---------------------|
| Triethylene glycol dimethacrylate | CAS-No. 109-16-0 |
|-----------------------------------|---------------------|

California Prop. 65 Components

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

| |
|--------------------------------------|
| Section 16: Other Information |
|--------------------------------------|

HMIS Rating

| | |
|---------------|---|
| Health: | 0 |
| Flammability: | 1 |
| Reactivity: | 0 |

NFPA Rating

| | |
|---------------|---|
| Health: | 0 |
| Flammability: | 1 |
| 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.