



**Section 1: Identification**

**PRODUCT AND COMPANY INFORMATION**

**Product Name:** Tetraethylene glycol diacrylate      **Molecular Formula:** C<sub>14</sub>H<sub>22</sub>O<sub>7</sub>  
**Catalog Number:** M-189  
**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)**

Acute toxicity, Oral, Category 4, H302  
Skin irritation, Category 2, H315  
Serious eye damage, Category 1, H318  
Specific target organ toxicity- single exposure, Category 3, Respiratory system, H335

**GHS Label elements, including precautionary statements**

Pictogram



Signal word      Danger

Hazard statement(s)

H302      Harmful if swallowed.  
H315      Causes skin irritation.  
H318      Causes serious eye damage.  
H335      May cause respiratory irritation.

Precautionary statement(s)

P264      Wash skin thoroughly after handling.  
P270      Do not eat, drink or smoke when using this product.  
P280      Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301+P312      IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+P352      IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310      Immediately call a POISON CENTER or doctor/physician.  
P330      Rinse mouth.  
P332+P313      If skin irritation occurs: Get medical advice/attention.  
P362      Take off contaminated clothing and wash before reuse.  
P501      Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS** – This product may release fume and/or vapor of variable composition depending on processing time and temperature. Possible cross sensitization with other acrylates and methacrylates

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 (%)
Tetraethylene glycol diacrylate	17831-71-9	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

In case of contact, immediately flush skin with plenty of water. Get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

##### In case of eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and consult a physician.

##### If swallowed

Do NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention immediately.

##### 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

When burned, the following hazardous products of combustion can occur: Carbon oxides, Hazardous organic compounds, Polymerization is exothermic and can degenerate into an uncontrolled reaction.

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

Fight fire from a protected location. Use water spray to cool unopened containers. Closed containers of this material may explode when subjected to heat from surrounding fire. Fire fighting equipment should be thoroughly decontaminated after use.

### 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. Evacuate personnel to safe areas. Prevent further leakage or spillage if you can do so without risk. 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 and collect spillage with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable properly labeled containers for prompt disposal. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Reference to other sections**

For disposal see section 13.

**Section 7: Handling and Storage****Precautions for safe handling**

Avoid contact with skin, clothing and eyes. Do not taste or swallow. Avoid inhalation of vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling. Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. For precautions see section 2.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry, cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store out of direct sunlight in a cool well ventilated place. Keep stabilizers levels constant to avoid explosive polymerization. An air space is required above the liquid in all containers; avoid storage under an oxygen-free atmosphere. Inhibitor levels should be maintained- the typical shelf-life for this product is 6 months.

Store separate from: Strong oxidizing agents, Strong reducing agents, Free radical generators, Inert gas, Oxygen scavenger, peroxides

Temperature tolerance- Do not store below: 32° F (0° C)  
Temperature tolerance- Do not store above: 100° F (38° C)

**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 parameters.

**Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

Tightly fitting safety goggles. Faceshield (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. 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**

Avoid breathing processing vapor or mist. 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	Musty
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	>94° C (201° F) (Pensky-Martens 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	1.114 (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. However, this material can undergo hazardous polymerization.

**Possibility of hazardous reactions**

Hazardous polymerization may occur. Polymerization is exothermic and can degenerate into an uncontrolled reaction.

**Conditions to avoid**

This material polymerizes exothermically in the presence of heat, contamination, oxygen free atmosphere, free radicals, peroxides and inhibitor depletion liberating heat. Avoid direct sunlight. DO NOT expose to ultraviolet light.

**Incompatible materials**

Strong oxidizing agents, Strong reducing agents, Free radical generators, Inert gas, Oxygen scavenger, Peroxides

**Hazardous decomposition products**

Thermal decomposition giving flammable and toxic products: Carbon oxides, Acrylates, Hazardous organic compounds

In the event of fire: see section 5

**Section 11: Toxicological Information****Information on toxicological effects****Acute toxicity**

Oral

Harmful if swallowed. Rat-LD50-800 mg/kg (Undiluted material is corrosive to the digestive tract)

Dermal

May be harmful in contact with skin. Rabbit-LD50 > 3,000 mg/kg

Inhalation

No deaths occurred. Rat-LC0 = 1.24 mg/l (Vapor)  
(OECD Test Guideline 403)

**Skin corrosion/irritation**

Causes skin irritation (Rabbit) 4.4/8.0

**Serious eye damage/eye irritation**

Causes serious eye damage. (Rabbit) Irritation Index: 103/110

**Respiratory or skin sensitization**

Not a sensitizer. Guinea pig Maximization Test. (Guinea pig) No skin allergy was observed

**Genotoxicity**

No genetic changes were observed in laboratory test using: Bacteria, yeast  
Genetic changes were observed in a laboratory test using: Animal cells

**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**

No data available

**Specific target organ toxicity - single exposure**

May cause respiratory irritation

**Specific target organ toxicity - repeated exposure**

Chronic dermal administration to Mouse/ signs: Ulceration

Subchronic dermal administration to Rabbit/ signs: Severe irritation

**Aspiration hazard**

No data available

**Additional Information**

No data available

**Section 12: Ecological Information**

**Toxicity**

Toxicity to fish	Toxic. Leuciscus idus (Golden orfe) 96 h LC50 4.6 – 10 mg/l
Toxicity to daphnia and other aquatic Invertebrates	Toxic. Daphnia magna (Water flea) 48 h EC50 2.6 mg/l
Toxicity to algae	Toxic. Desmodesmus subspicatus (Green algae) 72 h EC50 (Growth inhibition) 1.5 mg/l

**Persistence and degradability**

Biodegradability Readily biodegradable. (28 d) Biodegradation 60-70%

**Bioaccumulative potential**

Slightly bioaccumulable

Octanol Water Partition Coefficient: log Pow 2.81 (OECD Test Guideline 107)

**Mobility in soil**

Log Koc~ 2 calculated

**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**

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)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**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

**Massachusetts Right To Know Components**

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

**Pennsylvania Right To Know Components**

	CAS No.
Tetraethylene glycol diacrylate	17831-71-9

**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 cancer.

	CAS No.
Benzene, methyl-	108-88-3

<b>Section 16: Other Information</b>
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**HMIS Rating**

Health:	2
Flammability:	1
Reactivity:	2

**NFPA Rating**

Health:	2
Flammability:	1
Reactivity:	2

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