



Section 1: Identification

PRODUCT AND COMPANY INFORMATION

**Product Name:** Triethylene glycol diacrylate  
**Catalog Number(s):** M-190 **Molecular Formula:** C<sub>12</sub>H<sub>18</sub>O<sub>6</sub>  
**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)

Oral: Acute toxicity, Category 4, H302  
Dermal: Acute toxicity, Category 4, H312  
Skin irritation, Category 2, H315  
Serious eye damage, Category 1, H318  
Skin sensitization, Sub-category 1B, H335

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H302+H312 Harmful if swallowed or in contact with the skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

Precautionary statement(s)

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.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear eye protection/face protection/protective gloves/protective clothing.  
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.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362  
P501

Take off contaminated clothing and wash before reuse.  
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 diacrylate	1680-21-3	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 inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

##### In case of skin contact

In case of skin contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Get medical attention. 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. Get medical attention immediately.

##### If swallowed

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

##### 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

Fire-fighters and others who may be exposed to products of combustion should wear full fire-fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand/NIOSH approved or equivalent).

#### Further information

Fight fire from a protected location. Cool closed containers exposed to fire with water spray. 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

### Environmental precautions

Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Avoid generation of vapors. Contain and collect spillage with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable containers 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.

## Section 7: Handling and Storage

### Precautions for safe handling

Do not taste or swallow. Do not get in eyes, on skin, or on clothing. Do not breathe fumes/vapors or mist. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling. Emptied container retains vapor and produce residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Store out of direct sunlight in a cool well-ventilated place. Keep stabilizer 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.

Store separate from: strong oxidizing/reducing agents, free radical generators, inert gas, oxygen scavenger, peroxides

**Temperature Tolerance – Do not store below:** 0° C (38°F)

**Temperature Tolerance – Do not store above:** 38° C (100°F)

### Specific end use(s)

Laboratory chemicals, Synthesis of substances

## Section 8: Exposure Controls/Personal Protection

### Control parameters

#### Components with workplace control parameters

Airborne Exposure Guidelines:

US. OARS. WEELs Workplace Environmental Exposure Level Guide:

Skin designation

Remarks:

Can be absorbed through the skin

Time Weighted Average

1 mg/m<sup>3</sup>

Remarks:

Avoid skin or eye contact with liquids or aerosols

Remarks:

Listed

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption.

### Appropriate engineering controls

Investigate engineering techniques to reduce exposure below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

## Personal protective equipment

### Eye/face protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for give application. Avoid natural rubber gloves. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

### Respiratory protection

Avoid breathing vapor or mist. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for a give application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR 1910.134.

### Control of environmental exposure

Prevent further leakage or 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	Form: Liquid
b)	Odor	Musty
c)	Odor Threshold	No data available
d)	pH	~7
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	266° C (510° F)
g)	Flash point	>94° C (201° F)- 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	No data available
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

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

### Chemical stability

This material is chemically stable under normal and anticipated storage, handling and processing conditions. However, this material can undergo hazardous polymerization.

**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/reducing agents, free radical generators, inert gas, oxygen scavengers, 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) (Undiluted material is corrosive to the digestive tract)	LD50: 966 mg/kg
Dermal:	Harmful in contact with skin (Rabbit)	LD50: 1,900 mg/kg
Inhalation:	No deaths occurred (Rat) (6h)	
Skin Irritation:	Causes skin irritation (Rabbit)	
Eye Irritation:	Causes serious eye damage (Rabbit)	

**Repeated Dose Toxicity**

Repeated dermal administration to rabbit/affected organ(s): skin/signs: severe irritation/No adverse systemic effects reported

Repeated dermal administration to mouse/affected organ(s): skin/signs: severe irritation/No adverse systemic effects reported

Sub-chronic dermal administration to mouse/affected organ(s): skin, liver/signs: local irritation, changes in organ weights

Sub-chronic dermal administration to mouse/affected organ(s): skin, liver/signs: irritation, changes in organ weights

**Carcinogenicity**

Chronic dermal application administration to Mouse/signs: increased incidence of tumors was reported.

**Genotoxicity**

**Assessment in Vitro:** No genetic changes were observed in laboratory tests using: bacteria, yeast.

Genetic changes were observed in laboratory tests using: animal cells

**Other Information**

Possible cross sensitization with other acrylates and methacrylates

**Human Experience**

Skin contact: Allergic reactions, contact dermatitis, severe irritation. (Based on reports of occupational exposure to workers) (studied using human volunteers)

## Section 12: Ecological Information

**Ecotoxicology:**

<b>Aquatic Toxicity Data:</b>	Toxic. LD50 = 6.9 mg/l
<b>Aquatic Invertebrates:</b>	Practically non-toxic. Invertebrates EC50 = 120 mg/l
<b>Algae:</b>	Harmful, EC50 = 12 mg/l

## 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)

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

Triethylene glycol diacrylate	CAS-No. 1680-21-3
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#### New Jersey Right To Know Components

Triethylene glycol diacrylate	CAS-No. 1680-21-3
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#### 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:	3
Flammability:	1
Reactivity:	2

#### NFPA Rating

Health:	3
Flammability:	1
Reactivity:	2

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.