



Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: Propoxylated Neopentyl glycol diacrylate
Catalog Number(s): M-226 **Molecular Formula:** $(C_3H_6O)_x(C_3H_6O)_xC_{11}H_6O_4$
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
Chronic Aquatic Toxicity, Category 2, H411

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261 Avoid breathing gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.
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.
P391 Collect spillage.
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 (%)
Propoxylated Neopentyl glycol diacrylate	84170-74-1	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. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact

Wash off with soap and plenty of water. Remove contaminated clothing and shoes; wash thoroughly before reuse. Get medical attention if symptoms occur.

In case of eye contact

Immediately flush eyes with water

If swallowed

DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person

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

Thermal decomposition giving flammable and toxic products:

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. 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.

Further information

Do not allow run off from firefighting to enter drains or water courses

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

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

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**

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. An air space is required above the liquid in all containers; avoid storage under an oxygen free atmosphere.

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

Product is sensitive to light and moisture.

Do not store below 32° F (0° C)

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.

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**

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

Impervious 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

Ensure proper ventilation when working with product. For nuisance exposures use OV/AG or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Control of environmental exposure

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	Acrylic like
c)	Odor Threshold	No data available
d)	pH	~ 7
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	>340° F (171° 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	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**

No data available

Chemical stability

Stable under recommended storage conditions.

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: Practically nontoxic (Rat) LD50 > 5,000mg/kg (No mortality)
Dermal: Practically nontoxic (Rabbit) LD50 > 5,000mg/kg

May be harmful in contact with skin. (Rat) LD50 > 2,000mg/kg

Inhalation

No deaths occurred. (Rat) 4 h LC0 > 2mg/l (No mortality)

Skin irritation

Not irritating. (Rabbit) Draize Test 0/8. (4 h)

Causes skin irritation. (Rabbit) Draize Test 5 / 8. (24 h)(occluded exposure)

Eye irritation

Causes mild eye irritation. (Rabbit) Irritation Index: 13/110

Skin sensitization

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

May cause allergic skin reaction. LLNA: Local Lymph Node Assay. (Mouse) Produced and allergic reaction

Repeated dose toxicity

Repeated oral administration to Rat/ No adverse effects reported.

Genotoxicity

Assessment in Vitro

No genetic changes were observed in laboratory test using: animal cells, bacteria, human cells

Developmental toxicity

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

Reproductive effects

Reproductive/Developmental Effects Screening Assay. Dermal (Rat)/ No toxicity to reproduction

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.

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

Section 12: Ecological Information

Chemical Fate and Pathway

Data on this material and/or a similar material are summarized below.

Biodegradation

Not readily biodegradable. (28 d) biodegradation 41%

Octanol Water Partition Coefficient

log Pow = 2.41 – 3.87

Ecotoxicology

Data on this material and/or its components are summarized below.

Aquatic Toxicity Data

Toxic. Danio rerio (zebra fish) 96 h LC50 = 1.81 mg/l

Aquatic invertebrates

Harmful. Daphnia magna (water flea) 48 h EC50 37 mg/l

Algae

Harmful. Pseudokirchneriella subcapitata (green algae) 72 h ErC50 (Growth inhibition) 11 mg/l

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

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)**

UN number: 3082

Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, N.O.S. (Propoxylated Neopentyl glycol diacrylate)

Marine pollutant: yes

IMDG

UN number: 3082

Class: 9

Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propoxylated Neopentyl glycol diacrylate)

Marine pollutant: yes

Flash point: >340°F (171°C) (Pensky-Martens closed cup)

IATA

UN number: 3082

Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, N.O.S. (Propoxylated Neopentyl glycol diacrylate)

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

Acute Health Hazard, Reactivity Hazard

Massachusetts Right to Know Components

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

Pennsylvania Right to Know Components

Propoxylated Neopentyl glycol diacrylate

CAS-No.
84170-74-1

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 State of California to cause birth defects or other reproductive harm.

Section 16: Other Information

HMIS Rating

Health: 2
Flammability: 1
Reactivity: 1

NFPA Rating

Health: 2
Flammability: 1
Reactivity: 1

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.