SAFETY DATA SHEET

Revision Date: 08/08/17

Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: 2-Phenoxyethyl acrylate **Molecular Formula:** $C_{11}H_{12}O_3$

Catalog Number: M-178

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, Category 1, 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 dust/fumes/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/ 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.
P391 Collect spillage.
P501 Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) or not covered by GHS – No data available

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 (%)
2-Phenoxyethyl acrylate	48145-04-6	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. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Thoroughly clean shoes before reuse.

In case of eye contact
Immediately flush eyes with plenty of water for at least 15 minutes.

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
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. Do not allow run-off from fire fighting to enter drains or water courses.

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 prolonged or repeated contact with skin. Avoid inhalation of vapor or mist. 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 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- 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.

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. Investigate engineering techniques to reduce exposures 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 practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Personal protective equipment

Eye/face protection
Safety goggles. 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	> 201° F (94° C) (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	1.103 (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. 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
His 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) LD5O = 5,000-5,500 mg/kg
May be harmful if swallowed. (Mouse) LD5O = 4,500 mg/kg
Dermal:
May be harmful in contact with skin. (Rabbit) LD50 = 2,800 mg/kg

Skin corrosion/irritation
Not irritating (Rabbit)

Serious eye damage/eye irritation
Causes mild irritation (Rabbit)

Respiratory or skin sensitization
May cause allergic skin reaction. Guinea Pig Maximization Test (Guinea pig) Skin allergy was observed

Human experience: Skin allergy was observed (Studied using human volunteers) (Based on reports of occupational exposure to workers)

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
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Subacute oral administration to laboratory animal/ affected organ(s): Lier, kidney, spleen, stomach. Signs: Changes in organ structure or function, clinical chemistry changes, changes in blood cell counts, reduced body weight

Aspiration hazard
No data available

Additional Information
Possible cross sensitization with other acrylates and methacrylates

Section 12: Ecological Information

Toxicity

Toxicity to fish	Toxic. Leuciscus idus (Golden orfe) 96 h LC50 10 mg/l

Toxicity to daphnia and Other aquatic invertebrates	Toxic. Daphnia magna (Water flea) 48 h EC50 1.2 mg/l
Toxicity to algae	Toxic. Scenedesmus subspicatus (Green algae) 72 h EC50 between 1-10 mg/l
Toxicity to bacteria	Practically nontoxic. Bacteria EC50 > 1.000 mg/l

Persistence and degradability
No data available

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. Very toxic 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)
UN number: 3082 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (2-Phenoxyethyl acrylate)
Marine pollutant: Yes

IMDG
UN number: 3082 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (2-Phenoxyethyl acrylate)
Marine pollutant: Yes

IATA
UN number: 3082 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (2-Phenoxyethyl acrylate)
Marine pollutant: Yes

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
SARA Title III, Section 313:

2-Phenoxyethyl acrylate, CAS# 48145-07-6: 1.0% De minimis concentration. Reportable Threshold is 25,000 lbs (Manufacturing and processing). 10,000 lbs (Otherwise used (non-manufacturing/processing))

SARA 311/312 Hazards
Reactivity Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS No.
2-Phenoxyethyl acrylate	48145-04-6

Pennsylvania Right To Know Components

	CAS No.
2-Phenoxyethyl acrylate	48145-04-6

New Jersey Right To Know Components

	CAS No.
2-Phenoxyethyl acrylate	48145-04-6

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

Section 16: Other Information

HMIS Rating		**NFPA Rating**	
Health:	2	Health:	2
Flammability:	1	Flammability:	1
Reactivity:	2	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.