



Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: Isooctyl acrylate **Molecular Formula:** C₁₁H₂₀O₂
Catalog Number(s): M-180
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)

Flammable liquid, Category 4, H227
Acute aquatic toxicity, Category 1, H400
Chronic Aquatic Toxicity, Category 1, H410

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H227 Combustible liquid.
H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statement:

Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection/face protection.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391 Collect spillage.
P403 + P235 Store in a well-ventilated place. Keep cool.
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 (%)
Isooctyl acrylate	29590-42-9	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.

If inhaled

If breathed in, move person into fresh air.

In case of skin contact

Wash off with soap and plenty of water. Remove contaminated clothing and shoes; wash thoroughly before reuse.

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

Carbon oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Use water spray to cool unopened containers.

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. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. 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 spillage and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). 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. Keep away from sources of ignition – No smoking. Take measures to prevent the build up of electrostatic charge. 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.

Light sensitive. Moisture sensitive.

Storage class (TRGS 510): Combustible liquids

Specific end use(s)

Laboratory chemicals, Manufacture of substances

Section 8: Exposure Controls/Personal Protection

Airborne Exposure Guidelines

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides:

Time Weighted Average 5 ppm (37.5 mg/m³)

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 minimize exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designated above mean that exposure to this material may cause allergic reactions.

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.

Consult ACGIH ventilation manual or NFPA Standard 91 for design or exhaust systems.

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 recommended). Consult respirator manufacturer to determine appropriate type equipment for a given 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 or 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.

Skin Protection: Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Avoid natural rubber gloves. Wash hands and contaminated skin thoroughly after handling.

Eye Protection: Use good industrial practice to avoid eye contact.

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	>178°F (81° 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

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity

Oral: Practically nontoxic (Rat) LD50 > 5,000mg/kg

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

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

Skin corrosion/irritation

Practically non-irritating (Rabbit) Irritation index: 0,7/8,0 (4h)

Serious eye damage/eye irritation

Mild eye irritation (Rabbit) Irritation index: 0,2/110,0

Respiratory or skin sensitization

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

Repeated Dose Toxicity

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

Repeated oral administration to Rat/affected organ(s): liver, kidney. Thyroid gland/signs: changes in organ weights, changes in organ structure or function.

Carcinogenicity

Chronic dermal application administration to Mouse/signs: No increase in tumor incidence was reported.

Genotoxicity

Assessment in Vitro: No genetic changes were observed in laboratory tests using: bacteria, yeast, animal cells

Genetic changes were observed in laboratory tests using: human cells

Developmental Toxicity

Exposure during pregnancy, Oral (Rat)/No birth defects were observed. (Delays in development, at doses that produce effects in mothers).

Reproductive Toxicity

Reproduction test, dermal application (Rat)/No toxicity to reproduction

Other Information

Possible cross sensitization with other acrylates and methacrylates

Section 12: Ecological Information**Chemical Fate and Pathway**

Biodegradation: Readily biodegradable (21 d) biodegradation 100%
Octanol Water Partition Coefficient: log Pow = 4.5 – 4.7 (OECD Test Guideline 117)

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

Aquatic Toxicity Data:	Very toxic. Pimephales Promelas (fathead minnow) 96 h LC50 = 0.67 mg/l
Aquatic Invertebrates:	Very toxic. Daphnia magna (Water flea) 48 h EC40 = 0.4 – 1.6 mg/l
Algae:	Very toxic. Pseudokirchneriella subcapitata (green algae) 48 h EC50 = 0.4 -1 .21 mg/l
Microorganisms:	Respiration inhibition/Activated sludge 3 h EC50 > 1,000 mg/l

Section 13: Disposal Considerations**Waste treatment method****Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. 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. (Isooctyl acrylate)
Marine pollutant: yes

