

**Section 1: Identification****PRODUCT AND COMPANY INFORMATION**

**Product Name:** Isobornyl acrylate      **Molecular Formula:** C<sub>13</sub>H<sub>20</sub>O<sub>2</sub>

**Catalog Number:** M-182

**Company:** Scientific Polymer Products, Inc.  
6265 Dean Parkway  
Ontario, NY 14519

**Telephone:** 585/265-0413  
**Fax:** 585/265-1390  
**Website:** [www.scipoly.com](http://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  
Acute aquatic toxicity, Category 1, H400  
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.  
H400      Very toxic to aquatic life.  
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 (%)
Isobornyl acrylate	5888-33-5	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.

##### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. 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	Slightly acrylic
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	35° C (95° F)
f)	Initial boiling point and boiling range	275° C (527° F)
g)	Flash point	= 226° F (108° 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	0.2 mmHg (20° C (68° F))
l)	Vapor density	No data available
m)	Relative density	0.97-0.99 (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:

May be harmful if swallowed. (Rat) LD50 2,300 – 4,890 mg/kg

Dermal:

Practically nontoxic. (Rabbit) LD50 > 5,000 mg/kg

May be harmful in contact with skin. (Rabbit) LD50 > 3,000 mg/kg (occluded exposure)

Inhalation:

No deaths occurred. (Rat) 1 h Exposure time (Saturated vapor)

#### Skin corrosion/irritation

Causes mild skin irritation (Rabbit) (24 h)

#### Serious eye damage/eye irritation

Causes mild eye irritation (Rabbit)

#### Respiratory or skin sensitization

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

#### Genotoxicity

Assessment in Vitro: No genetic changes were observed in a laboratory test using: Bacteria

Both positive and negative responses for genetic changes were observed in laboratory tests using: Animal cells

Developmental toxicity: Reproductive/Developmental Effects Screening Assay: Oral(Rat)- No birth defects were observed (Levels produced toxic effects in the mothers and offspring)

#### 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

Reproductive/ Developmental Effects Screening Assay. Oral (Rat)/ No toxicity to reproduction. (At high dose increased mortality in the offspring, toxic effects also observed in the parental animals at these doses)

#### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

Repeated oral administration to Rat/ No adverse systemic effects reported

#### Aspiration hazard

No data available

#### Additional Information

Possible cross sensitization with other acrylates and methacrylates

## Section 12: Ecological Information

### Toxicity

Toxicity to fish

Very toxic. Danio rerio (Zebra fish) 96 h LC50 0.704 mg/l

Toxicity to daphnia and Other aquatic Invertebrates Very toxic. Daphnia magna (Water flea) 48 h EC50 1 mg/l

Toxicity to algae Toxic. Pseudokirchneriella (Green algae) 72 h IC r50 4.2 mg/l  
Toxic. Pseudokirchneriella (Green algae) 72 h ErC50 1.98 mg/l

#### **Persistence and degradability**

Readily biodegradable. (28 d) Biodegradation 73%  
Octanol Water Partition Coefficient: log Pow 4.21

#### **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. (Isobornyl acrylate)  
Marine pollutant: Yes

#### **IMDG**

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

#### **IATA**

UN number: 3082 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (Isobornyl 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**

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**

Isobornyl acrylate

CAS No.  
5888-33-5**New Jersey Right to Know Components**

No components are subject to the New Jersey Right to Know Act

**California Prop. 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16: Other Information****HMIS Rating**Health: 1  
Flammability: 1  
Reactivity: 2**NFPA Rating**Health: 1  
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.