



Section 1: Identification

PRODUCT AND COMPANY INFORMATION

**Product Name:** 1H,1H-Heptafluorobutyl methacrylate      **Molecular Formula:** C<sub>8</sub>H<sub>7</sub>F<sub>7</sub>O<sub>2</sub>  
**Catalog Number(s):** M-286  
**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 liquids, Category 3, H226  
Acute toxicity, Oral, Category 4, H302  
Acute toxicity, Inhalation, Category 4, H332  
Acute toxicity, Dermal, Category 4, H312  
Eye irritation, Category 2A, H319  
Specific target organ toxicity – single exposure, Category 3, H335

GHS Label elements, including precautionary statements

Pictogram(s)



Signal word(s): Warning

Hazard Statement(s)

H226 Flammable liquid and vapor.  
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
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.  
P271 Use only outdoors or in a well-ventilated area.

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P322	Specific measures (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P337+P313	If eye irritation persists: get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire, use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
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 umber	Concentration (%)
1H,1H-Heptafluorobutyl methacrylate	13695-31-3	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 breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In Case of Skin Contact

Wash off with soap and plenty of water. Consult a physician.

##### In Case of Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### 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 Section 11.

##### Indication of any Immediate Medical Attention and Special Treatment Needed

No data available

### Section 5: Fire-Fighting Measures

#### Extinguishing Media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

## Special Hazards Arising from the Substance or Mixture

Carbon oxides, hydrogen fluoride

### Advice for Fire-fighters

Wear self-contained breathing apparatus for fire-fighting 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.

### Methods and Material 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).

**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

Store in cool place. 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.

### 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

Face shield and safety glasses. 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

Compete 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

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 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	No data available
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	134-136°C
g)	Flash point	36°C (96°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	1.345 g/cm <sup>3</sup> @ 25°C
n)	Water solubility	No data available
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

Vapors may form explosive mixture with air.

### Conditions to Avoid

Heat, flames and sparks

### Incompatible Materials

Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents

### Hazardous Decomposition Product(s)

Other decomposition products - No data available

In the event of fire: see section 5

## Section 11: Toxicological Information

### Information on toxicological effects

#### Acute toxicity

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitization

No data available

#### 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

Inhalation – May cause respiratory irritation

#### Specific target organ toxicity - repeated exposure

No data available

#### Aspiration hazard

No data available

#### Additional Information

RTECS: Not available

Salivation, Nausea, Abdominal pain, Vomiting, Fever, Rapid respiration, Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section 12: Ecological Information

#### Toxicity

No data available

#### 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**

No data available

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

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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: 3272                      Class: 3                      Packing group: III  
Proper shipping name: Esters, n.o.s.  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

UN number: 3272                      Class: 3                      Packing group: III  
Proper shipping name: ESTERS. N.O.S. (1H,1H-Heptafluorobutyl methacrylate)  
Marine pollutant: No

**IATA**

UN number: 3272                      Class: 3                      Packing group: III  
Proper shipping name: Esters, n.o.s. (1H,1H-Heptafluorobutyl methacrylate)

**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**

Fire 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**

	CAS-No.
1H,1H-Heptafluorobutyl methacrylate	13695-31-3

**New Jersey Right-to-Know Components**

	CAS-No.
1H,1H-Heptafluorobutyl methacrylate	13695-31-3

**California Proposition 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: 2  
Flammability: 3  
Reactivity: 0

**NFPA Rating**

Health: 2  
Flammability: 3  
Reactivity: 0

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.