SAFETY DATA SHEET

Revision Date: 03/18/20

Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: 1,1,1,3,3,3-Hexafluoroisopropyl methacrylate

Catalog Number(s): M-290 **Molecular Formula:** $C_7H_6F_6O_2$

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

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS)
Flammable Liquids, Category 2, H225
Acute Toxicity, Oral, Category 4, H302
Acute Toxicity, Inhalation, Category 4, H332
Acute Toxicity, Dermal, Category 4, H312
Skin Irritation, Category 2, H315
Eye Irritation, Category 2A, H319
Specific Target Organ Toxicity – Single Exposure, Category 3, Respiratory System, H335

GHS Label elements, including precautionary statements

Pictogram(s)

Signal Word: Danger

Hazard Statement(s)

H225	Highly flammable liquid and vapor.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation.
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.
P332+P313	If skin irritation occurs, get medical advice/attention.
P337+P313	If eye irritation persists, get medical advice/attention.
P362	Take off contaminated clothing and wash 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 Number	Concentration (%)
1,1,1,3,3,3-Hexafluoroisopropyl methacrylate	3063-94-3	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.

Inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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

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

Ingestion
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

Suitable 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 of Mixture
Carbon oxides, hydrogen fluoride

Advice for Fire-Fighting
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 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)

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 building 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, Synthesis 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
Complete suite 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	No data available
g)	Flash point	14° C (57° 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	No data available
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. Extremes of temperature and direct sunlight.

Incompatible Materials
Strong oxidizing agents

Hazardous Decomposition Products
No data available. In the event of a 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 probable, possible or confirmed human carcinogen by ACGIH.

NTP: 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 NTP.

OSHA: 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 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

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 & Degradability
No data available

Bioaccumulation 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
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: II
Proper shipping name: Esters, n.o.s.
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN Number: 3272 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: Esters, n.o.s. (1,1,1,3,3,3-Hexafluoroisopropyl methacrylate)
Marine pollutant: No

IATA
UN Number: 3272 Class: 3 Packing group: II
Proper shipping name: Esters, n.o.s. (1,1,1,3,3,3-Hexafluoroisopropyl 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.
1,1,1,3,3,3-Hexafluoroisopropyl methacrylate	3063-94-3

New Jersey Right-to-Know Components

	CAS-No.
1,1,1,3,3,3-Hexafluoroisopropyl methacrylate	3063-94-3

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		**NFPA Rating**	
Health hazard:	2	Health hazard:	3
Flammability:	3	Flammability:	3
Physical Hazard:	0	Physical Hazard:	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.