# **SAFETY DATA SHEET**

Revision Date: 03/18/20

### **Section 1: Identification**

### PRODUCT AND COMPANY INFORMATION

**Product Name:** 2,2,2-Trifluoroethyl methacrylate **Molecular Formula:** C<sub>6</sub>H<sub>7</sub>F<sub>3</sub>O<sub>2</sub>

Catalog Number(s): M-284

**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 2, H225 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** 



Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapor.

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.

P271 Use only outdoors or in a well ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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 person 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.
P321	Specific treatment (see supplemental first aid instructions on this label).
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 to extinguish.
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.

# 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.

Dispose of contents/container to an approved waste disposal plant.

# Section 3: Composition/Information on Ingredients

Ingredient	CAS Number	Concentration (%)
2,2,2-Trifluroethyl methacrylate	352-87-4	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

P501

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 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, Hydrogen fluoride

## 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.

#### 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.

### 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. Use explosion-proof equipment. 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.

Recommended storage temperature 2 – 8° C

### 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**

Impervious clothing, 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 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
ď)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	59°C (138°F) @ 133 hPa (100 mmHg)
g)	Flash point	17° C (63° F) – closed cup
h)	Evaporation rate	No data available
i) ์	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or	No data available
•	explosive limits	
k)	Vapor pressure	No data available

k) Vapor pressure No data available
l) Vapor density No data available
m) Relative density 1.181 g/cm3 @ 25°C (77°F)
n) Water solubility No data available
o) Partition coefficient: no octanol/water log Pow: 151

Partition coefficient: n- octanol/water log Pow: 151 0) No data available Auto-ignition temperature p) Decomposition temperature No data available q) Viscosity No data available r) **Explosive** properties No data available s) 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.

Contains the flowing stabilizer(s):

Mequinol (100ppm)

# 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, Polymerizing initiators

# **Hazardous decomposition products**

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

Inhalation: No data available

Dermal: 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 (GHS)

Inhalation – May cause respiratory irritation.

# Specific target organ toxicity- repeated exposure (GHS)

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.

Stomach - Irregularities - Based on Human Evidence (Mequinol)

# **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: II

Proper shipping name: Esters, n.o.s.

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

UN Number: 3272 Packing group: II Class: 3 EMS-No: F-E, S-D

Proper shipping name: Esters, n.o.s. (2,2,2-Trifluoroethyl methacrylate)

Marine pollutant: No

IATA

UN Number: 3272 Class: 3 Packing group: II

Proper shipping name: Esters, n.o.s. (2,2,2-Trifluoroethyl 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. 2,2,2-Trifluoroethyl methacrylate 352-87-4

**New Jersey Right To Know Components** 

CAS-No. 352-87-4

2,2,2-Trifluoroethyl methacrylate

# **California Prop. 65 Components**

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

# **Section 16: Other Information**

HMIS Rating		NFPA Rating	
Health:	2	Health:	2
Flammability:	3	Flammability:	3
Reactivity:	0	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.