### **SAFETY DATA SHEET**

Revision Date: 08/08/24

#### Section 1: Identification

### PRODUCT AND COMPANY INFORMATION

Product Name: t-Butyl acrylate Molecular Formula: C<sub>7</sub>H<sub>12</sub>O<sub>2</sub>

Catalog Number(s): M-219

**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 Acute toxicity, Oral, Category 4, H302 Acute toxicity, Inhalation, Category 3, H331 Acute toxicity, Dermal, Category 4, H312 Skin irritation, Category 2, H315 Skin sensitization, Category 1, H317

Specific target organ toxicity- single exposure, Category 3, Respiratory system, H335

Acute aquatic toxicity, Category 2, H401 Chronic aquatic toxicity, Category 2, H411

### GHS Label elements, including precautionary statements

### Pictogram



Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapor.

H302+H312 Harmful if swallowed or in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

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.
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.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340+P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
P333+P313	If skin irritation or rash occurs: 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.
P391	Collect spillage.
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 (%)
t-Butyl acrylate	1663-39-4	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

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. Take victim immediately to hospital. Consult a physician.

# In case of eye contact

Flush eyes with water as a precaution.

### 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

No data available

### 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

Wear respiratory protection. 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. 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. Use explosion proof equipment. Keep away from sources of ignition- No smoking. Take measures to prevent the buildup 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.

Storage Class (TRGS 510): Flammable liquids

### 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. Hazardous components without workplace control parameters.

### **Exposure controls**

#### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### 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 suit protecting against chemicals. 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 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) b) c) d) e) f) g) h)	Appearance Odor Odor Threshold pH Melting point/freezing point Initial boiling point and boiling range Flash point Evaporation rate Flammability (solid, gas)	Form: Liquid No data available No data available No data available -68.99° C (-92.18° F) 61 – 63° C (142 – 145° F) 60mmHg 17° C (63° F)- Closed cup No data available No data available
j)	Flammability or explosive limits Upper	No data available
	Lower	No data available
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Relative density	0.875 g/cm3 @ 25° C (77° F)
n)	Water solubility	ca. 2 g/l
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 oxidizing agents

# **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions- Carbon oxides

Other decomposition products- no data available

In the event of fire: see section 5

# **Section 11: Toxicological Information**

#### Acute toxicity

LD50 Oral- Rat -1,056 mg/kg

LC50 Inhalation- Rat -4 h- 7,000 mg/m3

LD50 Dermal-Rabbit -2,000 mg/kg

# Skin Corrosion/Irritation

Skin- Rabbit

Result: Skin irritation

### 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**

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** 

Toxicity to fish LC50- Leuciscus idus (Golden orfe) – 46-68 mg/l -96.0 h

Toxicity to daphnia and

other aquatic invertebrates

EC50- Daphnia magna (Water flea) 57mg/l – 48 h

Toxicity to algae EC50- Desmodesmus subspicatus (Green algae) – 280 mg/l – 72 h

# 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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

## **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: 1993 Class: 3 Packing group: II

Proper shipping name: Flammable liquids, n.o.s. (t-Butyl acrylate)

Poison Inhalation Hazard: No

**IMDG** 

UN number: 1993 Class: 3 Packing group: II

Proper shipping name: Flammable liquids, n.o.s. (t-Butyl acrylate)

Marine pollutant: Yes

**IATA** 

UN number: 1993 Class: 3 Packing group: II

Proper shipping name: Flammable liquids, n.o.s. (t-Butyl acrylate)

# **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.

t-Butyl acrylate 1663-39-4

### **New Jersey Right to Know Components**

CAS No.

t-Butyl acrylate 1663-39-4

### 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.