



# Safety Data Sheet - Version 5.0

Preparation Date 6/28/2019

Latest Revision Date (If Revised)

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

**Chemical Name** 1-Methylpropyl Ester Methanesulfonic Acid

**Catalogue #** B485610

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Product Uses** To be used only for scientific research and development. Not for use in humans or animals.

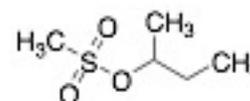
### 1.3 Details of the Supplier of the Safety Data Sheet

**Company** Toronto Research Chemicals  
2 Brisbane Road  
Toronto, ON M3J 2J8  
CANADA

**Telephone** +14166659696

**FAX** +14166654439

**Email** orders.trc@lgcgroup.com



### 1.4 Emergency Telephone Number

**Emergency#** +1(416) 665-9696 between 0800-1700 (GMT-5)

## 2. HAZARDS IDENTIFICATION

### 2.1/2.2 Classification of the Substance or Mixture and Label Elements

#### GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Not a hazardous substance by GHS.

#### GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

**Signal Word** None

#### GHS Hazard Statements

None Not a hazardous substance according to GHS.

#### GHS Precautionary Statements

### 2.3 Unclassified Hazards/Hazards Not Otherwise Classified

No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

**Molecular Formula:** C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>S

**Molecular Weight:** 152.21

**CAS Registry #:** 16156-54-0

**EC#:**

#### Synonyms

### 3.2 Mixtures

Not a mixture.

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures

#### General Advice

If medical attention is required, show this safety data sheet to the doctor.

**If Inhaled**

If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

**In Case of Skin Contact**

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

**In Case of Eye Contact**

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

**If Swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

**4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

**4.3 Indication of any Immediate Medical Attention and Special Treatment Needed**

No data available

**5. FIREFIGHTING MEASURES****5.1 Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special Hazards Arising from the Substance or Mixture**

Carbon oxides, Sulfur oxides

**5.3 Advice for Firefighters**

Wear self contained breathing apparatus for fire fighting if necessary. Use personal protection equipment.

**5.4 Further Information**

No data available.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Avoid contact with skin, eyes or clothing.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Method and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**7.2 Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

Storage conditions: 4°C

**7.3 Specific End Uses**

For scientific research and development only. Not for use in humans or animals.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control Parameters**

Contains no components with established occupational exposure limits.

**8.2 Exposure Controls**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on Basic Physical and Chemical Properties**

**A) Appearance**

Colourless Oil

**C) Odour Threshold**

No data available

**E) Melting Point/Freezing Point**

No Data Available

**G) Flash point**

No data available

**I) Flammability (Solid/Gas)**

No data available

**K) Vapour Pressure**

No data available

**M) Relative Density**

No data available

**O) Partition Coefficient: n-octanol/water**

No data available

**Q) Decomposition Temperature**

No data available

**S) Explosive Properties**

No data available

**B) Odour**

No data available

**D) pH**

No data available

**F) Initial Boiling Point/Boiling Range**

No data available

**H) Evaporation Rate**

No data available

**J) Upper/Lower Flammability/Explosive Limits**

No data available

**L) Vapour Density**

No data available

**N) Solubility**

Chloroform (Slightly), Methanol (Slightly)

**P) Auto-Ignition Temperature**

No data available

**R) Viscosity**

No data available

**T) Oxidizing Properties**

No data available

**9.2 Other Information**

no data available

**10. STABILITY AND REACTIVITY****10.1 Reactivity**

No data available

**10.2 Chemical Stability**

Stable under recommended storage conditions.

**10.3 Possibility of Hazardous Reactions**

No data available

**10.4 Conditions to Avoid**

No data available

**10.5 Incompatible Materials**

No data available

**10.6 Hazardous Decomposition Products**

In the event of fire: See section 5. Other decomposition products: No data available.

**11. TOXICOLOGICAL INFORMATION****11.1 Information on Toxicological Effects****A) Acute Toxicity**

No data available

**B) Skin Corrosion/Irritation**

No data available

**C) Serious Eye Damage/Irritation**

No data available

**D) Respiratory or Skin Sensitization**

No data available

**E) Germ Cell Mutagenicity**

Limited laboratory results have shown mutagenicity in model systems.

**F) Carcinogenicity**

No data available

**G) Reproductive Toxicity/Teratogenicity**

No data available

**H) Single Target Organ Toxicity - Single Exposure**

No data available

**I) Single Target Organ Toxicity - Repeated Exposure**

No data available

**J) Aspiration Hazard**

No data available

## **K) Potential Health Effects and Routes of Exposure**

### **Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

### **Ingestion**

May be harmful if swallowed.

### **Skin**

May be harmful if absorbed through skin. May cause skin irritation.

### **Eyes**

May cause eye irritation.

## **L) Signs and Symptoms of Exposure**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

## **M) Additional Information**

RTECS: PB2661000

## **12. ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and Degradability**

No data available

### **12.3 Bioaccumulative Potential**

No data available

### **12.4 Mobility in Soil**

No data available

### **12.5 Results of PBT and vPvB Assessment**

No data available

### **12.6 Other Adverse Effects**

No data available

## **13. DISPOSAL CONSIDERATIONS**

### **13.1 Waste Treatment Methods**

#### **A) Product**

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

#### **B) Contaminated Packaging**

Dispose of as above.

#### **C) Other Considerations**

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

## **14. TRANSPORT INFORMATION**

### **14.1 UN Number**

DOT (US): N/A

IATA: N/A

IMDG: N/A

ADR/RID: N/A

### **14.2 UN Proper Shipping Name**

DOT (US)/IATA:

Not dangerous goods

IMDG/ARD/RID:

Not dangerous goods

### **14.3 Transport Hazard Class(es)**

DOT (US): N/A

IATA: N/A

IMDG: N/A

ADR/RID: N/A

### **14.4 Packing Group**

DOT (US): N/A

IATA: N/A

IMDG: N/A

ADR/RID: N/A

### **14.5 Environmental Hazards**

DOT (US): None

IATA: None

IMDG: None

ADR/RID: None

### **14.6 Special Precautions for User**

None

## 15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### A) Canada

**DSL/NDSL Status:** This product is not listed on the Canadian DSL/NDSL.

#### B) United States

**TSCA Status:** This product is not listed on the US EPA TSCA.

#### C) European Union

**ECHA Status:** This product is not registered with the EU ECHA.

### 15.2 Chemical Safety Assessment

No data available

## 16. OTHER INFORMATION

### 16.1 Revision History

Original Publication Date: 6/28/2019

### 16.2 List of Abbreviations

|       |   |
|-------|---|
| LD50  | Median lethal dose of a substance required to kill 50% of a test population.          |
| LC50  | Medial lethal concentration of a substance required to kill 50% of a test population. |
| LDLo  | Lowest known lethal dose  |
| TDLo  | Lowest known toxic dose   |
| IARC  | International Agency for Research on Cancer   |
| NTP   | National Toxicology Program   |
| RTECS | Registry of Toxic Effects of Chemical Substances                                      |

### 16.3 Further Information

Copyright 2015. Toronto Research Chemicals Inc. Copies may be made for internal use only. The above information is believed to be correct to the best of our knowledge, but is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.