



## MATERIAL SAFETY DATA SHEET

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Issue Date:

### 1- Chemical Product Information and Company Identification.

**Product Name:** : Ethyl methanesulfonate GC reference standard, Anstan<sup>®</sup>.  
**Synonym:** : Methanesulfonic Acid Ethyl Ester.  
**Product code:** : BS13705.  
**CAS Number:** : 62-50-0.  
**Company Name:** : Briti Scientific.  
**Company Address:** : Plot No:78/B/13, SY-79,Phase-VI, Jeedimetla,Hyderabad-500 055.  
Telangana, India.

### Section 2- Composition / Information on Ingredients.

CAS No.	Chemical Name	Mol. Formula
62-50-0.	Methanesulfonic Acid Ethyl Ester.	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> S.

### Section 3- Hazards Identification.

#### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute oral toxicity: Category 4  
Germ Cell Mutagenicity: Category 1B  
Carcinogenicity: Category 1B  
Reproductive Toxicity: Category 2

#### Label Elements

**Signal Word:** Danger.

#### **Hazard Statements**

Harmful if swallowed.  
May cause genetic defects.  
May cause cancer.  
Suspected of damaging fertility.



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## Precautionary Statements

### **Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment as required.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

### **Response**

IF exposed or concerned: Get medical attention/advice.

### **Ingestion**

**IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

### **Storage**

Store locked up.

### **Disposal**

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

### **Hazards not otherwise classified (HNOC)**

None identified

## Section 4- First Aid Measures.

**General Advice:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

**Skin Contact:** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

**Ingestion:** Do NOT induce vomiting. Get medical attention.

**Most important symptoms and effects:** No information available.

**Notes to Physician:** Treat symptomatically.

## Section 5- Fire Fighting Measures.

**Suitable Extinguishing Media:** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Unsuitable Extinguishing Media:** No information available.

**Flash Point:** 100 °C / 212 °F.

**Method -** No information available.

**Autoignition Temperature:** No information available.



### Explosion Limits

Upper No data available

Lower No data available

**Sensitivity to Mechanical Impact:** No information available.

**Sensitivity to Static Discharge:** No information available.

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products:** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur oxides.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

## Section 6- Accidental Release Measures.

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

**Environmental Precautions:** Should not be released into the environment. See Section 12 for additional Ecological Information.

### Methods for Containment and Clean Up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## Section 7- Handling and Storage.

**Handling:** Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents. Strong bases.

## Section 8- Exposure Control/Personal Protection.

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures:** Ensure adequate ventilation, especially in confined areas. Ensure that eye wash stations and safety showers are close to the workstation location.

### Personal Protective Equipment

**Eye/face Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. if exposure limits are exceeded or if irritation or other symptoms are experienced



**Skin and body protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection:** No protective equipment is needed under normal use conditions.

**Hygiene Measures:**

Handle in accordance with good industrial hygiene and safety practice.

### Section 9- Physical and Chemical Properties.

**Appearance:** Colorless to Almost colorless clear liquid.

**Odor:** No information available.

**Odor Threshold:** No information available.

**pH:** No information available.

**Melting Point/Range:** No information available.

**Boiling Point/Range:** 89 °C/10 mmHg.

**Flash Point:** 100 °C / 212 °F.

**Evaporation Rate:** No information available.

**Flammability (solid,gas):** Not applicable.

**Flammability or explosive limits:**

Upper No information available.

Lower No information available.

**Vapor Pressure:** No information available.

**Density:** 1.206 g/cm<sup>3</sup>.

**Solubility:** Soluble in water.

**Partition coefficient; n-octanol/water:** No data available.

**Autoignition Temperature:** No data available.

**Decomposition Temperature:** No data available.

**Viscosity:** No data available

**Molecular formula:** C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>S.

**Molecular Weight:** 124.15 g/mol.

### Section 10- Stability and Reactivity.

**Reactive Hazard:** None known, based on information available.

**Stability:** Stable under normal conditions.

**Conditions to Avoid:** Incompatible products. Keep away from open flames, hot surfaces and sources of ignition

**Incompatible Materials:** Strong oxidizing agents, Strong bases.

**Hazardous Decomposition Products:** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>),

**Hazardous Polymerization:** Hazardous polymerization does not occur.

**Hazardous Reactions:** None under normal processing.



## Section 11- Toxicological Information.

### Acute Toxicity

**Product Information:** No acute toxicity information is available for this product.

**Toxicologically Synergistic Products:** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation:** Irritating to eyes, respiratory system and skin.

**Sensitization:** No information available.

**Mutagenic Effects:** Animal experiments showed mutagenic and teratogenic effects.

**Reproductive Effects:** No information available.

**Developmental Effects:** No information available.

**Teratogenicity:** No information available.

STOT - single exposure None known

STOT - repeated exposure None known

**Aspiration hazard:** No information available.

**Symptoms / effects, both acute and delayed:** No information available.

**Endocrine Disruptor Information:** No information available.

**Other Adverse Effects:** The toxicological properties have not been fully investigated.

## Section 12- Ecological Information.

**Ecotoxicity:** Do not empty into drains.

**Persistence and Degradability:** Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation:** No information available.

**Mobility:** Will likely be mobile in the environment due to its water solubility.

## Section 13- Disposal Considerations.

**Waste Disposal Methods:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## Section 14- Transport Information.

**DOT:** Not regulated

**TDG:** Not regulated

**IATA:** Not regulated

**IMDG/IMO:** Not regulated

## Section 15- Regulatory Information.

### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710).





X - Listed

'-' - Not Listed

**TSCA 12(b)** - Notices of Export Not applicable.

**U.S. Federal Regulations**

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information.

CWA (Clean Water Act): Not applicable.

**Clean Air Act:** Not applicable.

**OSHA** - Occupational Safety and Health Administration: Not applicable.

**CERCLA:** Not applicable.

**California Proposition 65:** This product does not contain any Proposition 65 chemicals.

**Section 16- Other Information.**

Briti Scientific provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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