



MATERIAL SAFETY DATA SHEET

Product:**033478 Methanesulfonic Acid, 500 mL*****(Supplied by Sigma-Aldrich)***

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The following information is believed to be accurate and is currently the best information available to us. However, we make no warranties, express or implied, with respect to the information supplied and we assume no liability resulting from its use.

2. HAZARDOUS IDENTIFICATION

HAZARD CLASS	Corrosive - Acid	NFPA	HMIS
Eyes:	Corrosive	HEALTH	3 3
Skin:	Corrosive	FLAMMABILITY	0 0
Ingestion:	Corrosive	REACTIVITY	0 0
Inhalation:	Corrosive	NFPA SPECIAL	- -
		HMIS PPE	

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	Methane sulfonic Acid					
PERCENT (%)	99.0	0	0	0	0	0
CAS NO.	75-75-2					
EINECS NO.	200-898-6					
RISKS	R34					
SAFETY	S20, S26, S36/37/39, S45					



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4. FIRST AID MEASURES

- GENERAL:** Remove contaminated clothing, wash thoroughly before reuse.
- EYES:** Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.
- SKIN:** Remove contaminated clothing and flush with water thoroughly
- INHALATION:** Move to fresh air
- INGESTION:** If large amounts are swallowed, get medical help immediately. If patient is conscious, give large quantities of water

5. FIRE FIGHTING MEASURES

- UNUSUAL FIRE AND EXPLOSION:** None
- HAZARDS:** Corrosive
- EXTINGUISHING MEDIA:** Carbon Dioxide, Foam, Dry Chemical
(Note: Carbon Dioxide is one of the decomposition products)
- SPECIAL FIRE FIGHTING PROCEDURES:** Although the product is not combustible, firefighters subject to products of combustion should wear full-protective clothing including self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

- Ventilate area.
Wear appropriate protective clothing and eye protection.
Contain spill.
Neutralize, collect or absorb with an inert material (vermiculite, dry sand, earth, etc.)
Mop up and store in a suitable waste container.
Wash contaminated areas with soap and water.

7. HANDLING AND STORAGE

- Ensure good ventilation.
Have an eye wash in the immediate area in case of emergency.
Store at room temperature
Keep container tightly closed
Use good laboratory practice when working with any chemical whether it is considered hazardous or not.



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8. EXPOSURE CONTROL/PERSONAL PROTECTION

ROUTES OF ENTRY

INHALATION: Yes

SKIN: Yes

INGESTION: Yes

HEALTH HAZARDS

ACUTE: May cause irritation of eyes and mucous membranes

CHRONIC: Unknown

VENTILATION

LOCAL EXHAUST: Good laboratory ventilation is acceptable.

MECHANICAL (GENERAL): Use in hoods if possible

SPECIAL: None

OTHER: None

PROTECTIVE CLOTHING OR EQUIPMENT

GLOVES: Disposable laboratory gloves are adequate

EYE PROTECTION: Glasses or goggles.

RESPIRATORY: None

OTHER: Labcoats

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear to yellow, viscous

ODOR: None

pH: <1.0

MOLECULAR WEIGHT: 96.1

MELTING POINT: Not Applicable

BOILING POINT: 333 degrees F

167 degrees C

AUTOIGNITION TEMPERATURE: Undetermined

FLASH POINT: >230 degrees F - >110 degrees C

LOWER EXPLOSION LIMIT: Undetermined

UPPER EXPLOSION LIMIT: Undetermined

SPECIFIC GRAVITY: 1.481



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10. STABILITY & REACTIVITY

STABILITY/CONDITIONS TO AVOID: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Water-reactive materials

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Toxic oxides of sulfur

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGY INFORMATION

PRODUCT TOXICOLOGY INFORMATION:

SYMPTOMS AND SIGNS OF EXPOSURE: May cause minor soreness or redness of eyes or mucous membranes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown

EMERGENCY AND FIRST AID PROCEDURES: In case of contact, wash skin with copious amounts of water.
Flush eyes with copious amounts of water for at least 15 minutes.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Submit to medical examination.

CARCINOGENICITY: No data found

RTECS #: No data found

ACGIH TLV TWA: No data found

OSHA PEL: No data found

NTP: No data found

IARC Monographs: No data found

HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

Hazardous Components:	Methane sulfonic Acid
RTECS #	PB2100000
OSHA PEL	Not Found
ACGIH TLV	Not Found
TOXICITY DATA	ORL-RAT LDLo: 200 mg/kg IPR-RAT DLLo: 50 mg/kg



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12. ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this solution

13. DISPOSAL CONSIDERATIONS

Contact local hazardous materials or chemical waste disposal agency for regulations.

14. TRANSPORT INFORMATION

IATA CLASSIFICATION: IATA Dangerous Goods

UN ID NUMBER: 3265
PROPER SHIPPING NAME: Corrosive liquid, acidic, organic, n.o.s., (methanesulfonic acid)
CLASS OR DIVISION: 8
SUB RISK: None
HAZARD LABEL(S): Corrosive
PACKAGING GROUP: II
LIMITED QUANTITY PKG INSTRUCTION: Y808
MAXIMUM LIMITED QUANTITY: 0.5 L
SPECIAL PROVISIONS: None
ERG CODE: 8L
TRAINING: Shippers must be trained and certified.
VARIATIONS: State and Operator Variations may exist.

15. REGULATORY INFORMATION

PRODUCT RISK STATEMENTS: R34 Causes burns
PRODUCT SAFETY STATEMENTS: S1 Keep locked up
S2 Keep out of reach of children
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36 Wear suitable protective clothing
S45 In case of accident or if you feel unwell, seek medical advice immediately

16. OTHER INFORMATION