



## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: METHANESULPHONIC ACID

CAS Number: 75-75-2

**1. IDENTIFICATION:**

**Product Code** : 91890, 96100, 98362

**Company Name** : ADVENT CHEMBIO PRIVATE LIMITED

**Address** : W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,  
NAVI MUMBAI - 400 701, MAHARASHTRA, INDIA.

**E-mail** : [sales@adventchembio.com](mailto:sales@adventchembio.com)

**WEBSITE** : [www.adventchembio.com](http://www.adventchembio.com)

**Company Phone Number** : +91 77770 84837

**2. HAZARDS IDENTIFICATION:****Hazard classification****Physical hazards**

**Corrosive to Metals** : Category 1

**Health hazards**

**Acute toxicity** : Category 4

**Acute toxicity** : Category 4

**Serious eye damage** : Category 1

**Skin corrosion** : Sub-category 1B

**Specific target organ toxicity - single exposure** : Category 3

**Labels elements** :

**Hazard symbol** :



**Signal word** : Danger

**Hazard statement** : May be corrosive to metals.  
Harmful if swallowed or in contact with skin.  
Causes severe skin burns and eye damage.  
May cause respiratory irritation.

**Precautionary statement**

**Prevention** : Obtain special instructions before use.  
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
Keep container tightly closed. Ground/ bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.



## MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: METHANESULPHONIC ACID

CAS Number: 75-75-2

	Use only non-sparking tools. Take precautionary measures against static discharge.
<b>Response</b>	: IF exposed or concerned: Get medical advice/ attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
<b>Storage</b>	: Store in dry and a well-ventilated place. Heat sensitive. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
<b>Disposal</b>	: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification</b>	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**3. COMPOSITION/ INFORMATION ON INGRADIENTS:**

Ingredient	CAS Number	Percent	Hazardous
Methanesulphonic Acid	75-75-2	99 - 100%	Yes

**4. FIRST AID MEASURES:**

<b>General information</b>	: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
<b>Ingestion</b>	: Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.
<b>Inhalation</b>	: Get medical attention if symptoms persist.
<b>Skin contact</b>	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
<b>Eye contact</b>	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	: Toxic if inhaled. Toxic if swallowed. Toxic in contact with skin. Irritating to eyes, respiratory system and skin.
<b>Indication of immediate medical attention and special treatment needed</b>	: Symptoms may be delayed. Treat symptomatically.



## MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: METHANESULPHONIC ACID

CAS Number: 75-75-2

**5. FIRE FIGHTING MEASURES:****General information :****Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media** : Carbon dioxide (CO<sub>2</sub>) dry powder

**Unsuitable extinguishing media** : Foam water

**Specific hazards arising from the chemical** : Carbon oxides Sulfur oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

**Special protective equipment and precautions for firefighters**

**Special firefighting procedures** : Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

**Special protective equipment for fire-fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. ACCIDENTAL RELEASE MEASURES:**

**Personal precautions, protective equipment and emergency procedures** : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

**Methods and material for containment and cleaning up** : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

**Environmental precautions** : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**7. HANDLING AND STORAGE:**

**Precautions for safe handling** : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist



## MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: METHANESULPHONIC ACID

CAS Number: 75-75-2

or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities** : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a well-ventilated place. Heat sensitive. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

**8. EXPOSURE CONTROLS PERSONAL PROTECTION:****Control parameters**

Ingredients with workplace control parameters

**Appropriate engineering controls** : No data available

**Individual protection measures, such as personal protective equipment**

**General information** : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

**Eye/face protection** : Wear safety glasses with side shields (or goggles).

**Hand protection** : Chemical resistant gloves.

**Other** : Wear suitable protective clothing.

**Respiratory protection** : In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.

**Hygiene measures** : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance** : Clear, colorless to yellowish brownish liquid.

**Odor** : characteristic

**Solubility** : Miscible in water.

**Formula** : CH<sub>3</sub>SO<sub>3</sub>H

**Molecular Weight** : 96.11 g/mol

**Specific Gravity** : No data available



## MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: METHANESULPHONIC ACID

CAS Number: 75-75-2

pH	: < 1 at 20 °C.
Boiling Point	: 167 °C
Melting Point	: 17 - 19 °C
Flash Point	: 189 °C
Vapor Density (Air=1)	: 3.32
Vapor Pressure (mm Hg)	: 0,112 hPa at 80 °C
Evaporation Rate (BuAc=1)	: No data available

**10. STABILITY AND REACTIVITY:**

Reactivity	: Forms explosive mixtures with air on intense heating.
Chemical stability	: Material is stable under normal conditions..
Possibility of hazardous reactions	: Violent reactions possible with: strong alkalis Oxidizing agents strong reducing agents Amines Hydrogen fluoride acids strong alkalis Bases Risk of explosion/exothermic reaction with: Water Hydrogen fluoride.
Conditions to avoid	: Heat, sparks, flames. Sunlight.
Incompatible materials	: various metals, i.e., Iron, Copper, brass, Mild steel
Hazardous decomposition products	: In the event of fire: see section 5

**11. TOXICOLOGICAL INFORMATION:****Information on likely routes of exposure**

Ingestion	: Irritating. May cause nausea, stomach pain and vomiting.
Inhalation	: May cause irritation to the mucous membranes and upper respiratory tract. May cause central nervous system effects
Skin contact	: Causes mild skin irritation
Eye contact	: Causes serious eye irritation.

**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

Oral Product	: LD50 Oral - Rat - male and female - 648,7 mg/kg
Dermal Product	: LD50 Dermal - Rabbit - male and female - 2.000 mg/kg
Inhalation Product	: No data available.
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: Prolonged or repeated skin contact may cause drying, cracking, or irritation
Serious eye damage/eye	: Irritating to eyes.



## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: METHANESULPHONIC ACID

CAS Number: 75-75-2

## irritation Product

Respiratory or skin  
sensitization Product : Causes burns.

Carcinogenicity Product : This substance has no evidence of carcinogenic properties

IARC Monographs on the  
Evaluation of Carcinogenic : No carcinogenic components identified.

Risks to Humans  
US. National Toxicology  
Program (NTP) Report on : No carcinogenic components identified.

Carcinogens  
US. OSHA Specifically  
Regulated Substances (29 : No carcinogenic components identified.

CFR 1910.1001-1050  
Germ cell mutagenicity

In vitro Product : No data available.

Reproductive toxicity  
Product : No data available.

Specific target organ  
toxicity - single exposure : Not known.

Product  
Specific target organ  
toxicity - repeated : None known.

exposure Product  
Aspiration hazard Product : No data available.

Other effects : None known.

## 12. ECOLOGICAL INFORMATION:

## Ecotoxicity

## Acute hazards to the aquatic environment

Fish Product : static test LC50 - Oncorhynchus mykiss (rainbow trout) - 73 mg/l - 96 h

Aquatic invertebrates  
Product : static test EC50 - Daphnia magna (Water flea) - 70 mg/l - 48 h

Toxicity to Aquatic Plants  
Product: : No data available.

## Persistence and degradability

Biodegradation Product : Expected to be readily biodegradable.

BOD/COD ratio Product : No data available.

## Bioaccumulative potential

Bioconcentration factor : No data available on bioaccumulation.



## MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: METHANESULPHONIC ACID

CAS Number: 75-75-2

## (BCF) Product

Partition coefficient n-octanol / water (log Kow) : No data available.

## Product

Specified substance(s) : No data available

Mobility in soil : No data available

Other adverse effects : No data available

## 13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 3265	Methanesulfonic acid	8	II	No
IMDG	UN 3265	Methanesulfonic acid	8	II	No
IATA	UN 3265	Methanesulfonic acid	8	II	No

## 15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

No Data Available.

## MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: METHANESULPHONIC ACID

CAS Number: 75-75-2

## 16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 29/05/2025

Version : 02

**Disclaimer:** This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).