

# ETHYL METHANE SULFONATE CAS No 62-50-0

# MATERIAL SAFETY DATA SHEET SDS/MSDS

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	<b>Product identifiers</b> Product name	:	Ethyl Methane Sulfonate
	CAS-No.	:	62-50-0
1.2	Relevant identified uses of	of th	e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of the safety data sheet		
	Company	:	Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi -110002 INDIA
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com
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**1.4 Emergency telephone number** Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4), H302 Germ cell mutagenicity (Category 1B), H340 Carcinogenicity (Category 2), H351

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

## Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s) H302 H340 H351

Harmful if swallowed. May cause genetic defects. Suspected of causing cancer.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
Supplemental Hazard Statements	none

Restricted to professional users.

#### 2.3 Other hazards

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.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms	:	Ethyl mesylate Methanesulfonic acid ethyl ester
Formula	:	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> S
Molecular weight	:	124.16 g/mol
CAS-No.	:	62-50-0
EC-No.	:	200-536-7

Hazardous ingredients according to Regulation	on (EC) No 1272/2008
Component	Classification

Concentration

# Ethyl methanesulphonate

Ethyl methanesulphonate				
CAS-No.	62-50-0	Acute Tox. 4; Muta. 1B; Carc.	<= 100 %	
EC-No.	200-536-7	2; H302, H340, H351		

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### 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. Consult a physician.

## In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

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

## **4.3 Indication of any immediate medical attention and special treatment needed** No data available

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable 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, Sulphur oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

## **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
- **6.2** Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

## SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. 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.

## Store under inert gas. Moisture sensitive.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

## 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 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 (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee 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 or spillage if safe to do so. Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: Colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: < 25 °C
f)	Initial boiling point and boiling range	85 - 86 °C at 13 hPa - lit.
g)	Flash point	100 °C - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	0.206 mmHg at 25 °C
I)	Vapour density	No data available
m)	Relative density	1.206 g/mL at 20 °C
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	log Pow: 0.09

	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	
9.2		her safety information data available		
SECT	ION	10: Stability and reactiv	ity	
10.1		<b>activity</b> data available		
10.2	<b>Chemical stability</b> May decompose on exposure to moist air or water. 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 Strong oxidizing agents, Strong bases			
10.6	Hazardous decomposition products Hazardous decomposition products formed under fire conditions Carbon oxides, Sulphur oxides Other decomposition products - No data available In the event of fire: see section 5			
SECT	ION	11: Toxicological inform	nation	
11.1	Infe	ormation on toxicologica	al effects	
	<b>Acute toxicity</b> LD50 Oral - Mouse - 470 mg/kg(Ethyl methanesulphonate)			
	Skin corrosion/irritation No data available(Ethyl methanesulphonate)			
	Serious eye damage/eye irritation No data available(Ethyl methanesulphonate)			
		<b>spiratory or skin sensitis</b> data available(Ethyl meth		
	Ge	rm cell mutagenicity	sig offects (Ethyler ethenceyler benete)	

In vivo tests showed mutagenic effects (Ethyl methanesulphonate)

No data available(Ethyl methanesulphonate)

## Carcinogenicity

This product is or contains a component that has been reported to be proba EPA classification. (Ethyl methanesulphonate)

Limited evidence of carcinogenicity in animal studies (Ethyl methanesulphonate) (Ethyl methanesulphonate)

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethyl methanesulphonate)

#### **Reproductive toxicity**

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.(Ethyl methanesulphonate)

#### Specific target organ toxicity - single exposure No data available(Ethyl methanesulphonate)

#### Specific target organ toxicity - repeated exposure No data available

#### Aspiration hazard

No data available(Ethyl methanesulphonate)

#### **Additional Information**

RTECS: PB2100000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Ethyl methanesulphonate)

#### **SECTION 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(Ethyl methanesulphonate)

## 12.5 Results of PBT and vPvB assessment

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.

#### 12.6 Other adverse effects No data available

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## **SECTION 14: Transport information**

## 14.1 UN number

ADR/RID: - 3082 IMDG: - 3082 IATA: -30	 on nambol		
	ADR/RID: - 3082	IMDG: - 3082	IATA: -3082

14.2		<b>shipping name</b> Not dangerous goods Not dangerous goods Not dangerous goods		
14.3	Transport ADR/RID:	<b>hazard class(es)</b> -9	IMDG: -9	IATA: -9
14.4	Packaging ADR/RID:		IMDG: -III	IATA: -III
l14.5	Environme ADR/RID: `	<b>ental hazards</b> Yes	IMDG Marine pollutant: Yes	IATA: Yes
14.6	<b>Special pr</b> No data av	ecautions for user ailable		

## **SECTION 15: Regulatory information**

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
- **15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

## **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H340	May cause genetic defects.
H351	Suspected of causing cancer.

## Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.