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DIMETHYL SULPHIDE CAS No 75-18-3

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers Product name	:	Dimethyl Sulphide
	CAS-No.	:	75-18-3
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 <u>care@cdhfinechemical.com</u>
1.4	Emergency telephone nui		
	Emergency Phone #	:	+91 11 49404040 (9:00am - 6:00 pm) [Office hours]
SEC	FION 2: Hazards identificati	on	
2.1	Classification of the subs	tan	ce or mixture
	Classification according to Regulation (EC) No 1272/2008 Flammable liquids (Category 2), H225 Eye irritation (Category 2), H319		

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) H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. Precautionary statement(s) P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370 + P378 In case of fire: Use dry powder or dry sand to extinguish.

P403	+	P235
1 400	т	1 200

Store in a well-ventilated place. Keep cool.

Supplemental Hazard none Statements

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	: Methyl sulfide DMS
Formula	: C ₂ H ₆ S
Molecular weight	: 62.13 g/mol
CAS-No.	: 75-18-3
EC-No.	: 200-846-2

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

Component		Classification	Concentration
Dimethyl sulfide			
CAS-No.	75-18-3	Flam. Liq. 2; Eye Irrit. 2; H225,	<= 100 %
EC-No.	200-846-2	H319	

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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. 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

Use water spray to cool unopened containers.

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. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low 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. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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.

Handle and store under inert gas. Refrigerate before opening. Handle and open container with care. hygroscopic

Storage class (TRGS 510): Flammable liquids

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

Derived No Effect Application Area	L evel (DNEL) Exposure routes	Health effect	Value
Workers Workers Consumers	Inhalation Skin contact Inhalation	Long-term systemic effects Long-term systemic effects Long-term systemic effects	31.5 mg/m3 80mg/kg BW/d 5.6 mg/m3
Predicted No Effect Compartment	t Concentration ((PNEC) Value	
Soil		0.0072 mg/kg	

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

Impervious clothing, Flame retardant antistatic protective clothing., 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 AXBEK (EN 14387) respirator cartridges as a backup to engine 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. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	characteristic
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: -98 °C - lit.
f)	Initial boiling point and boiling range	38 °C - lit.
g)	Flash point	-36 °C - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 19.7 %(V) Lower explosion limit: 2.2 %(V)
k)	Vapour pressure	402.7 hPa at 20 ℃ 1,356 hPa at 55 ℃
I)	Vapour density	2.1
m)	Relative density	0.847-0.849 g/cm3 at 20 °C
n)		

	o)	Partition coefficient: n- octanol/water	log Pow: 0.84 at 20 °C
	p)	Auto-ignition temperature	206 °C
	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	Oth	ner safety information	
		Solubility in other solvents	Ether Ethanol
		Relative vapour density	2.1
SECT	ION	10: Stability and reactivi	ty
10.1		activity data available	
10.2	Chemical stability Stable under recommended storage conditions.		
10.3		ssibility of hazardous rea data available	ctions
10.4		nditions to avoid at, flames and sparks.	
10.5		ompatible materials ong oxidizing agents	
40.0			• •

Hazardous decomposition products
 Other decomposition products - No data available
 Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides
 In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 3,300 mg/kg(Dimethyl sulfide) Remarks: Behavioral:General anesthetic. Behavioral:Change in motor activity (specific assay). LC50 Inhalation - Rat - male and female - 4 h - 102 mg/l(Dimethyl sulfide) (OECD Test Guideline 403) Remarks: Lungs, Thorax, or Respiration:Other changes.

LD50 Dermal - Rabbit - > 5,000 mg/kg(Dimethyl sulfide)

Skin corrosion/irritation

No data available(Dimethyl sulfide)

Serious eye damage/eye irritation No data available(Dimethyl sulfide)

Respiratory or skin sensitisation No data available(Dimethyl sulfide)

Germ cell mutagenicity

In vitro mammalian cell gene mutation test(Dimethyl sulfide) mouse lymphoma cells Result: negative OECD Test Guideline 474(Dimethyl sulfide) Mouse - male and female Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Specific target organ toxicity - single exposure No data available(Dimethyl sulfide)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available(Dimethyl sulfide)

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - >= 250 mg/kg(Dimethyl sulfide) RTECS: PV5075000

Nausea, Headache, Vomiting(Dimethyl sulfide)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - 213 mg/l - 96 h(Dimethyl sulfide) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 29 mg/l - 48 h(Dimethyl sulfide) (OECD Test Guideline 202)
Toxicity to algae	static test EC50 - Pseudokirchneriella subcapitata (green algae) - > 113.7 mg/l - 72 h(Dimethyl sulfide) (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability

aerobic - Exposure time 28 d(Dimethyl sulfide) Result: 77 % - Readily biodegradable. (OECD Test Guideline 301D)

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil

No data available(Dimethyl sulfide)

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

Harmful to aquatic life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. 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: 1164	IMDG: 1164	IATA: 1164
14.2	UN proper shipping nameADR/RID:DIMETHYL SULPHIDIMDG:DIMETHYL SULPHIDIATA:Dimethyl sulphide		
14.3	Transport hazard class(es) ADR/RID: 3	IMDG: 3	IATA: 3
14.4	Packaging group ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for user No data available		

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** A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

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

H225	Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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.