Safety Data Sheet

#90027443 · Full 16-section SDS

According to Regulation (EC) No 1907/2006
According to Regulation (EC) No 2020/878

Molekula Limited
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PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Dimethylamine 2M solution in Methyl Alcohol	**124-40-3**	**(CH3)2NH**	**10**	**14 Oct 2026**

SECTION 1

Identification

1.1 Product identifier

Product name	Dimethylamine 2M in Methanol
CAS number	124-40-3
EC / EINECS number	204-697-4
UFI code	0VYS-EEHP-UC8F-Y9W4
Chemical formula	(CH3)2NH
Molecular weight	45.08
SMILES	CNC

1.2 Relevant identified uses of the substance or mixture and uses advised against

Research and development, laboratory chemicals, manufacture of substances; not suitable for human consumption or veterinary purposes.

1.3 Details of the supplier of the safety data sheet

Molekula Limited
1 Millennium Way, Newton Aycliffe
Durham, DL5 6JW, United Kingdom
info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

Flam. Liq. 2, H225
Acute Tox. 3 (oral), H301
Acute Tox. 3 (dermal), H311
Acute Tox. 3 (inhalation), H331
Skin Irrit. 2, H315
Eye Dam. 1, H318
STOT SE 1, H370

2.2 Label elements

DANGER

CODE	HAZARD STATEMENT
H225	Highly flammable liquid and vapour
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H315	Causes skin irritation
H318	Causes serious eye damage
H370	Causes damage to organs

CODE	PRECAUTIONARY STATEMENT
P210	Keep away from heat/sparks/open flames/hot surfaces - No smoking
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P304+312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
P305+351+338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

2.3 Other hazards

No data available.

SECTION 3

Composition / information on ingredients

3.2 Mixtures

Concentration / purity	*Not applicable*
Impurities / stabilising additives	*Not applicable*

SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing; seek medical attention in case of persistent throat irritation or coughing.
Skin contact	Wash with plenty of soap and water for at least 15 minutes; get medical advice if you feel unwell.
Eye contact	Remove contact lenses if present, rinse eyes with water for at least 15 minutes and seek medical attention.
Ingestion	Rinse mouth; do NOT induce vomiting; get medical advice if you feel unwell.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

Not applicable

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically; no special treatment requirement.

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use a water jet

5.2 Special hazards arising from the substance or mixture

Not applicable

5.3 Advice for firefighters

Not applicable

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours and contact with skin and eyes; provide ventilation, remove ignition sources and prevent static discharges; see section 8 for PPE.

6.2 Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Collect with absorbent non-combustible material into suitable containers using spark-proof tools and explosion-proof equipment; remove ignition sources.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Keep away from heat, sparks, open flames and ignition sources; prevent static discharge; use spark-proof tools; work under hood with protective clothing, gloves and eye/face protection; avoid contact, ingestion and inhalation.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient
Conditions for safe storage (incompatibilities)	Store in a dry place in a closed container at ambient temperature; storage class 3 (flammable liquids).

7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL)	*Not applicable*
DNEC/PNEC data	*Not applicable*

8.2 Exposure controls

Eye / face protection	Safety glasses Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Wear butyl rubber gloves (0.3 mm thickness, breakthrough time 8 hours); inspect gloves before use; use gloves with long sleeves and wash skin thoroughly after handling.
Respiratory protection	Self-contained breathing apparatus Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.
Other protection	Good personal hygiene practices; wash contaminated skin thoroughly after handling.
Environmental exposure controls	Avoid discharge into drains.

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state	Liquid DERIVED FROM: LITERATURE
Colour	*Not applicable*
Odour	*Not applicable*
Melting / freezing point	*Not applicable*
Boiling point	*Not applicable*
Flammability	Flammable liquid and vapour. DERIVED FROM: LITERATURE
Lower and upper explosion limit	*No data available*
Flash point	5 °C DERIVED FROM: LITERATURE
Auto-ignition temperature	*Not applicable*
Decomposition temperature	*No data available*
pH	*Not applicable*
Acidity	Base DERIVED FROM: LITERATURE
Kinematic viscosity	*No data available*
Solubility	*Not applicable*
Partition coefficient n-octanol/water (log value)	*Not applicable*
Vapour pressure	*Not applicable*
Density (g/mL)	0.775 g/mL DERIVED FROM: LITERATURE
Relative vapour density	*No data available*
Particle characteristics	*No data available*

9.2 Other information

No data available

SECTION 10

Stability & reactivity

10.1 Reactivity

Risk of explosion if heated under confinement; vapour/air mixtures are explosive at intense warming.

10.2 Chemical stability

Not applicable

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Not applicable

10.5 Incompatible materials

Not applicable

10.6 Hazardous decomposition products

Not applicable

SECTION 11

Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (LD50 / LC50)	*Not applicable*
Skin corrosion / irritation	*Not applicable*
Eye corrosion / irritation	*Not applicable*
Respiratory / skin sensitisation	*Not applicable*
Carcinogenicity	*Not applicable*
Mutagenicity	*Not applicable*
Reproductive toxicity	*Not applicable*
STOT (single / repeated exposure)	*Not applicable*
Aspiration hazard	*Not applicable*

11.2 Information on other hazards

Not applicable

SECTION 12

Ecological information

12.1 Toxicity

Not applicable

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulative potential

Not applicable

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13

Disposal considerations

13.1 Waste treatment methods

Not applicable

SECTION 14

Transport information

14.1 UN number or ID number

UN1992

14.2 UN proper shipping name

FLAMMABLE LIQUID, TOXIC, N.O.S.

14.3 Transport hazard class(es)

3 (6.1)

14.4 Packing group

II

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Special precautions for user	Tunnel restriction code: D/E; Transport category: 2; IMDG EmS: F-E, S-D; ADR/RID classification code FT1, hazard identification number 336.
Transport category	2
Tunnel code	(D/E)
Packing instruction (ADR)	P001
Packing instruction (IMDG)	P001

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

Regulatory information

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

Substance-specific regulations (e.g. licences)	National Regulations: -Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances Other regulations, limitations and legal regulations: -Directive 94/33/EC- The protection of young people at work.
REACH code	Y110
ECHA notification	*Not applicable*

15.2 Chemical safety assessment

Not applicable

SECTION 16

Other information

Revision notes / other information	Section 16 lists the full meanings of hazard classes (Eye Dam. 1, Skin Irrit. 2, STOT SE 1, Acute Tox. 3 oral/dermal/inhalation, Flam. Liq. 2, Flam. Gas 1, Press. Gas compressed gas, Acute Tox. 4 inhalation, Aquatic Chronic 2, STOT SE 3) and H-statements (H220, H225, H280, H301, H301+H311+H331, H311, H315, H318, H331, H332, H335, H370, H411); no revision notes given.

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as “No data available” carry no recorded value; fields shown as “Not applicable” were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.