

Safety Data Sheet

according to UK REACH Regulation

N,N-Dimethylethanolamine

Revision date: 09.02.2023

Product code: 843.XXXX.XXX

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

SECTION 3: Composition/information on ingredients**3.1. Substances**

Sum formula: C₄H₁₁NO

Molecular weight: 89.14

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
108-01-0	2-dimethylaminoethanol; N,N-dimethylethanolamine			95 - < 100 %
	203-542-8	603-047-00-0		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B; H226 H332 H312 H302 H314			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
108-01-0	203-542-8	2-dimethylaminoethanol; N,N-dimethylethanolamine	95 - < 100 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1220 mg/kg; oral: LD50 = 2000 mg/kg STOT SE 3; H335: >= 5 - 100		

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration. Call a physician in any case!

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes. After contact with skin, wash immediately with plenty of water and soap. Call a physician in any case!

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Rinse mouth thoroughly with water. Medical treatment necessary.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray. alcohol resistant foam. Carbon dioxide (CO₂). Dry extinguishing powder.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide. Carbon monoxide Nitrogen oxides (NO_x).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Wear personal protection equipment. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.
Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on general occupational hygiene**

Wash hands before breaks and after work. Do not eat, drink, smoke or sneeze at the workplace.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Further information on storage conditions

storage temperature:

up to °C: 30

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
108-01-0	2-Dimethylaminoethanol	2	7.4		TWA (8 h)	WEL
		6	22		STEL (15 min)	WEL

8.2. Exposure controls**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses.

Hand protection

Tested protective gloves are to be worn: Single-use gloves. NBR (Nitrile rubber).

Skin protection

Lab apron. Chemical resistant safety shoes.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: liquid clear
 Colour: colourless
 Boiling point or initial boiling point and boiling range: 131 °C
 Flash point: 39 °C
 pH-Value (at 20 °C): 10,5 - 11,0
 Water solubility: miscible.

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Solubility in other solvents

Ethanol

Density (at 20 °C):

0,89 g/cm³**SECTION 10: Stability and reactivity****10.5. Incompatible materials**

Oxidizing agents, strong. Alkaline earth metals. Acid.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
108-01-0	2-dimethylaminoethanol; N,N-dimethylethanolamine				
	oral	LD50 mg/kg	2000	Rat	GESTIS
	dermal	LD50 mg/kg	1220	Rabbit	GESTIS
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		

SECTION 12: Ecological information**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number:	UN 2051
14.2. UN proper shipping name:	2-Dimethylaminoethanol
14.3. Transport hazard class(es):	8 (3)
14.4. Packing group:	II
Hazard label:	8 + 3
Transport category:	2
Tunnel restriction code:	D/E

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 2051
14.2. UN proper shipping name:	2-Dimethylaminoethanol
14.3. Transport hazard class(es):	8 (3)
14.4. Packing group:	II

Marine transport (IMDG)

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14.1. UN number or ID number:	UN 2051
14.2. UN proper shipping name:	2-Dimethylaminoethanol
14.3. Transport hazard class(es):	8 (3)
14.4. Packing group:	II

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 2051
14.2. UN proper shipping name:	2-Dimethylaminoethanol
14.3. Transport hazard class(es):	8 (3)
14.4. Packing group:	II

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.