



**Safety Data Sheet**

according to UK REACH Regulation

**Dimethylaminoethanol**

Revision date: 19.08.2022

Product code: K-26XX.12

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**Hazard statements**

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

**Precautionary statements**

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat. No Smoking.
P403+P235	Store in a well-ventilated place. Keep cool.
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.
P273	Avoid release to the environment.

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

Ethanol, 2-(dimethylamino)-

Sum formula: C<sub>4</sub>H<sub>11</sub>NO

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**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

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### 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. Call a physician in any case!

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Atomized water. Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam.

### 5.3. Advice for firefighters

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

### Additional information

Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

### 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

up to °C: 30

Protect against: Light.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	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****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

Physical state: liquid  
 Colour: colourless, light yellow

**Test method****Changes in the physical state**

Boiling point or initial boiling point and boiling range: 132 - 135 °C

Flash point: 39 °C DIN EN ISO 1523

Lower explosion limits: 1,4 vol. %

Upper explosion limits: 12,2 vol. %

pH-Value (at 20 °C): 10,5 - 11,0

Water solubility: partially soluble

**Solubility in other solvents**

Methanol.

**SECTION 10: Stability and reactivity****10.6. Hazardous decomposition products**

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx).

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

Acute toxicity, inhalant.

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

**SECTION 12: Ecological information**

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**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.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Contaminated packaging**

Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

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

<b><u>14.1. UN number or ID number:</u></b>	UN 2051
<b><u>14.2. UN proper shipping name:</u></b>	2-DIMETHYLAMINOETHANOL
<b><u>14.3. Transport hazard class(es):</u></b>	8
<b><u>14.4. Packing group:</u></b>	II
Hazard label:	8+3
Classification code:	CF1
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	83
Tunnel restriction code:	D/E

**Inland waterways transport (ADN)**

<b><u>14.1. UN number or ID number:</u></b>	UN 2051
<b><u>14.2. UN proper shipping name:</u></b>	2-DIMETHYLAMINOETHANOL
<b><u>14.3. Transport hazard class(es):</u></b>	8
<b><u>14.4. Packing group:</u></b>	II
Hazard label:	8+3
Classification code:	CF1
Limited quantity:	1 L
Excepted quantity:	E2

**Marine transport (IMDG)**

<b><u>14.1. UN number or ID number:</u></b>	UN 2051
<b><u>14.2. UN proper shipping name:</u></b>	2-DIMETHYLAMINOETHANOL
<b><u>14.3. Transport hazard class(es):</u></b>	8
<b><u>14.4. Packing group:</u></b>	II
Hazard label:	8+3
Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-C

**Air transport (ICAO-TI/IATA-DGR)**

<b><u>14.1. UN number or ID number:</u></b>	UN 2051
<b><u>14.2. UN proper shipping name:</u></b>	2-DIMETHYLAMINOETHANOL
<b><u>14.3. Transport hazard class(es):</u></b>	8
<b><u>14.4. Packing group:</u></b>	II
Hazard label:	8+3
Limited quantity Passenger:	0.5 L

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Passenger LQ:	Y840	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		851
IATA-max. quantity - Passenger:		1 L
IATA-packing instructions - Cargo:		855
IATA-max. quantity - Cargo:		30 L

**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)**

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