according to UK REACH Regulation

Dimethylaminoethanol

Revision date: 31.05.2022

Product code: 6100

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

1.1. Product identifier

Dimethylaminoethanol

Further trade names

Ethanol, 2-(dimethylamino)-

Synonyms:

EC No:

2-(Dimethylamino)ethanol; beta-(Dimethylamino)ethanol; 2-(Dimethylamino)ethyl alcohol; 2-(N,N-Dimethylamino)ethanol; Dimethyl(2-hydroxyethyl)amine; Dimethyl(hydroxyethyl)amine; Dimethylethanolamine; N,N-Dimethyl(2-hydroxyethyl)amine; N,N-Dimethyl-beta-hydroxyethylamine; N,N-Dimethylethanolamine; N,N-Dimethyl-N-(beta-hydroxyethyl)amine; Norcholine CAS No: 108-01-0 Index No: 603-047-00-0

1.2. Relevant identified uses of the substance or mixture and uses adv	vised against

203-542-8

Use of the substance/mixture

Precursor for [11C]Choline Precursor for [18F]Fluoroalkylcholine

1.3. Details of the supplier of the safety data sheet

Company name:	ABX advanced biochemical com	pounds
	Biomedizinische Forschungsrea	genzien GmbH
Street:	Heinrich-Gläser-Straße 10-14	
Place:	01454 Radeberg	
Telephone:	+49 3528 4041 60	Telefax: +49 3528 4041 65
e-mail:	info@abx.de	
Contact person:	Dr. Christoph Meyer	Telephone: +49 3528 4041 8732
e-mail:	meyer@abx.de	
Internet:	http://www.abx.de	
1.4. Emergency telephone	+49 3528 4041 60	

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

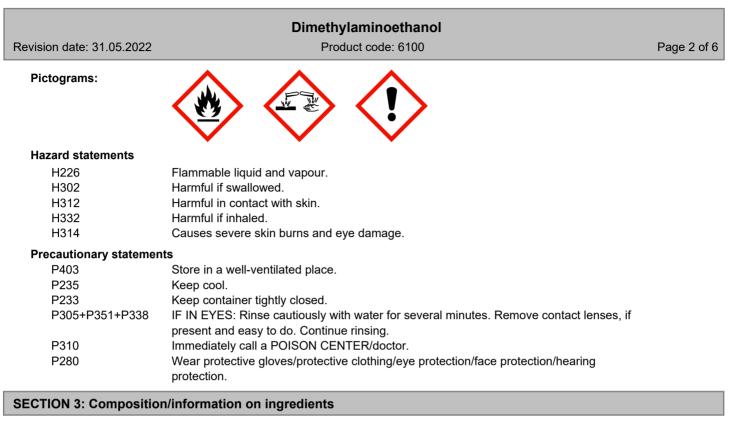
Hazard components for labelling

2-dimethylaminoethanol; N,N-dimethylethanolamine

Signal word:

Danger

according to UK REACH Regulation



3.1. Substances

Chemical characterization

Ethanol, 2-(dimethylamino)-	
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 To H314	ox. 4, Acute Tox. 4, Skin Corr. 1B; H2	226 H332 H312 H302	

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. L	imits, M-factors and ATE	
108-01-0	203-542-8	2-dimethylaminoethanol; N,N-dimethylethanolamine	95 - < 100 %
		= 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = al: 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.

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After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, 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. Call a physician in any case!

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Atomized water. Carbon dioxide (CO2). 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 of °C: 15 up to °C: 25 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/m³	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
Odour:	like: amines

		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 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			

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Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

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.

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled.

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:	11
Hazard label:	8 (3)
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:	11
Hazard label:	8 (3)
Marine transport (IMDG)	
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

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Hazard label:	8 (3)	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number or ID number:</u>	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)	

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.