

Material Safety Data Sheet

according to ANSI Z400.1-2004

Choline chloride

Print date: 24.04.2012

Product code: 6150

Page 1 of 4

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

Choline chloride

Further trade names

Ammonium, (2-hydroxyethyl)trimethyl-, chloride

Synonyms:

Choline chlorohydrate; Choline hydrochloride; (2-Hydroxyethyl)trimethylammonium chloride

Chemical characterization (substance)

Ammonium, (2-hydroxyethyl)trimethyl-, chloride

CAS No.: 67-48-1

Details of the supplier of the safety data sheet

Company name: ABX advanced biochemical compounds
Biomedizinische Forschungsreagenzien GmbH

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Emergency telephone: +49 3528 4041 60**SECTION 2: Hazards identification****Route(s) of Entry****Signs and Symptoms of Exposure**

Carcinogenicity (NTP): No information available.

Carcinogenicity (IARC): No information available.

Carcinogenicity (OSHA): No information available.

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

Sum formula: C₅H₁₄ClNO

Molecular weight: 139.62

Hazardous components

CAS No.	Components	Quantity
67-48-1	Choline chloride	95 - 100 %

SECTION 4: First aid measures**Description of first aid measures**

Material Safety Data Sheet

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Choline chloride

Print date: 24.04.2012

Product code: 6150

Page 2 of 4

After inhalation

Provide fresh air.

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.

After ingestion

Rinse mouth immediately and drink large quantities of water. Medical treatment necessary.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**Suitable extinguishing media: Water. alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO₂).**Advice for firefighters**

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

Additional information

Use a water spray jet to knock down vapours/gases/mists. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures**

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

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods and material for containment and cleaning up

Remove mechanically, placing in appropriate containers for disposal. Treat the assimilated material according to the section on waste disposal.

SECTION 7: Handling and storage**Precautions for safe handling****Advice on safe handling**

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

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

Keep container tightly closed. Keep locked up. Store in a place accessible only to authorized persons. Keep container in a well-ventilated place.

Further information on storage conditions

Recommended storage temperature:

of °C: 2

up to °C: 8

Protect against: Light.

Store under (Gas): argon. Nitrogen.

Material Safety Data Sheet

according to ANSI Z400.1-2004

Choline chloride

Print date: 24.04.2012

Product code: 6150

Page 3 of 4

SECTION 8: Exposure controls/personal protection**Control parameters****Exposure controls****Occupational exposure controls**

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

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

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

Form: solid crystalline
Color: colourless

Test method**Changes in the physical state**

Melting point: 302 - 305 °C
Water solubility: 140 g/L
Solubility in other solvents: dimethylsulphoxide (DMSO).

SECTION 10: Stability and reactivity

Stability: Stable
Possibility of Hazardous Reactions: Will not occur

Conditions to avoid

Light.

Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO_x). hydrochloric gas.

SECTION 11: Toxicological information**Information on toxicological effects****Acute toxicity**

Acute toxicity, dermal.

Additional information on tests

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information**Further information**

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations**Waste treatment methods**

Material Safety Data Sheet

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Page 4 of 4

Advice on disposal

Waste disposal according to official state regulations.

Contaminated packaging

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information**US DOT 49 CFR 172.101****Proper shipping name**

Not a hazardous material with respect to transportation regulations.

Other applicable information

Not a hazardous material with respect to these transportation regulations.

SECTION 15: Regulatory information**U.S. Regulations****SECTION 16: Other information****Hazardous Materials Information Label (HMIS)**

Health:	2
Flammability:	1
Physical Hazard:	1
Personal Protection:	C

NFPA Hazard Ratings

Health:	2
Flammability:	1
Reactivity:	1
Unique Hazard:	

