

Trade name: Cholinii chloridum

Date revised: 22.05.08

Dangerous substance number:

Version: 1 / CH

Date of printing: 22.05.08

01. Identification of the substance/preparation and of the company/undertaking

Trade name

Cholinii chloridum

Item-No. 06274700

Company/undertaking identification

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

Emergency 0041 (0)44 251 51 51

telephone

02. Hazards identification

Specific hazards to man and the environment

No special hazards have to be mentioned.

03. Composition / information on ingredients

CAS-Nr. 67-48-1

EINECS-Nr. 200-655-4

04. First aid measures

General information

Adhere to personal protective measures when giving first aid.. Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Remove the casualty into fresh air and keep him calm.. Summon a doctor immediately.

After skin contact

Wash off immediately with soap and water and rinse well.. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).. Begin with medical treatment.

After ingestion

Rinse mouth thoroughly with water.. In the event of symptoms take medical treatment.

05. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide, Water spray jet, Dry powder, Extinguish greater fire with water spray or alcohol-resistant foam.

Non Suitable extinguishing media

Full water jet

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

In the event of fire the following can be released:; Nitrogen oxides (NOx); Carbon monoxide (CO); Carbon dioxide (CO2); Hydrogen chloride (HCl); Development of toxic gases

Special protective equipment for fire-fighting



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Use self-contained breathing apparatus.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

06. Accidental release measures**Personal precautions**

Keep away sources of ignition.. Avoid dust formation.. Use personal protective clothing.. Use breathing apparatus if exposed to vapours/dust/aerosol.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up

Pick up mechanically.. Send in suitable containers for recovery or disposal.. When picked up, treat material as prescribed under heading "Disposal".

07. Handling and storage**Handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary).. Avoid dust formation.

Advice on protection against fire and explosion

Dust can form an explosive mixture with air.. Keep away from sources of ignition - refrain from smoking.. Take precautionary measures against static charges.

Storage**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place.

Further information on storage conditions

Protect from light.. Do not keep at temperatures above 30 °C.

08. Expose controls/personal protection**General protective and hygiene measures**

Observe the usual precautions when handling chemicals. At work do not eat, drink, smoke or take drugs. Do not inhale dust/fumes/aerosols. Avoid contact with eyes and skin. Keep away from food-stuffs, beverages and feed-stocks.

Occupational exposure controls**Respiratory protection**

If ventilation insufficient, use a respiratory protection apparatus.; Short term: filter apparatus, Filter P3

Hand protection

Protective gloves

Appropriate Material

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Not suitable: leather gloves

Not suitable: gloves made of thick material

Eye protection

Safety glasses

Skin protection

Clothing as usual in the chemical industry.

09. Physical and chemical properties



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General information

Form	Crystalline powder
Colour	white
Odour	amine-like

Important health, safety and environmental information**Flash point**

Remarks	not applicable
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Boiling point

Remarks	not determined
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Melting point

Remarks	not determined
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Density

Value	0.56		g/cm ³
temperature	20	°C	

Bulk density

Value	430		kg/m ³
temperature	20	°C	

Solubility in water

Remarks	soluble
Remarks	miscible in all proportions

Flammability :

Not ignitable

The product is not dangerous for explosions.

10. Stability and reactivity**Conditions to avoid**

No decomposition if stored and applied as directed.

Hazardous decomposition products

None known

Other information

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

11. Toxicological information**Acute toxicity / further data****Acute oral toxicity**

Species	rat		
LD50	3400		mg/kg

Irritant/corrosive effects**Irritant effect on skin**

Remarks	Irritating effects on the skin and mucous membrane.
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Irritant effect on eyes

Remarks	Irritates the eyes.
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Sensitization

Remarks	No sensitisation effect known.
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12. Ecological information

General information / ecology

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.. Ecological data are not available.

13. Disposal considerations

Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

14. Transport information

Land transport ADR/RID

non-dangerous goods

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

15. Regulatory information

Labelling in accordance with EC directives

Does not require a hazard warning label, but the normal safety precautions for handling of chemicals must be observed.

Hazardous component(s) to be indicated on label

Water Hazard Class (Ger.)

Water Hazard Class WGK 2

(Ger.)

Classification according to Annex 1 VwVwS

16. Other information

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.