

Trade name: Cetylpyridinii chloridum

Substance number: 062540

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

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

1.1. Product identifier

Cetylpyridinii chloridum

Item No. 06254000

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

Use of the substance/preparation

Preservative, Manufacture of pharmaceutical products, Manufacture of cosmetics, O/W emulsifier for cosmetics

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible
for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

Acute Tox. 4 H302

STOT SE 3 H335

Aquatic Acute 1 H400

Acute Tox. 2 H330

Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H315

Causes skin irritation.

H330

Fatal if inhaled.

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H335 May cause respiratory irritation.
 H302 Harmful if swallowed.
 H318 Causes serious eye damage.
 H400 Very toxic to aquatic life.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P284 [In case of inadequate ventilation] wear respiratory protection.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 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 or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains cetylpyridinium chloride

Supplemental information**Other information**

Not for supply to the general public in Switzerland

SECTION 3: Composition/information on ingredients**Hazardous ingredients****cetylpyridinium chloride**

CAS No.	6004-24-6		
EINECS no.	204-593-9		
Registration no.	05-2114625352-57-0000		
Concentration	>= 100		%
Classification (Regulation (EC) No. 1272/2008)			
	Acute Tox. 4	H302	
	Skin Irrit. 2	H315	
	Eye Dam. 1	H318	
	Acute Tox. 2	H330	
	STOT SE 3	H335	Lungs; Route of exposure: inhalative
	Aquatic Acute 1	H400	

Concentration limits (Regulation (EC) No. 1272/2008)
 M = 100

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Adhere to personal protective measures when giving first aid. Remove contaminated, soaked clothing immediately and dispose of safely. Irregular breathing/no breathing: artificial respiration.

After inhalation

Ensure supply of fresh air. If necessary, give oxygen. Seek medical advice immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.

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.). Take medical treatment.

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After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Symptomatic treatment, no specific antidote known.

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

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

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus. Wear full protective suit.

Other information

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

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

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Send in suitable containers for recovery or disposal. When picked up, treat material as prescribed under Section 13 "Disposal".

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

Provide good ventilation of working area (local exhaust ventilation if necessary). Handle and open container with care. Avoid dust formation.

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

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

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Keep in a cool place.

Hints on storage assembly

Not required.

Storage classes

Storage class according to TRGS 510	6.1B	Non-combustible substances of acute toxicity, categories 1 and 2 / very toxic hazardous substances
Storage category (Switzerland)	6.1	Toxic substances

Further information on storage conditions

Protect from light. Store in a dry place. Keep at temperature not exceeding 30 °C. Keep container tightly closed in a cool, well-ventilated place.

SECTION 8: Exposure controls/personal protection**8.2. Exposure controls****Exposure controls**

See Section 7. No measures exceeding the ones mentioned necessary.

General protective and hygiene measures

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

Respiratory protection

Short term: filter apparatus, Filter P3; At intensive and longer exposition use self-contained breathing apparatus.

Hand protection

Protective gloves

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

Body protection

Protective clothing

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

Form	Powder		
Colour	white		
Odour	characteristic		
pH value			
Value	>=	5.4	
Concentration/H ₂ O		10	%
Temperature		20	°C
Melting point			
Value	80	to	84 °C
Initial boiling point and boiling range			
Remarks	not determined		

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Flash point

Value	°C
Remarks	Not applicable

Flammability (solid, gas)

Not ignitable

Vapour pressure

Remarks	Not applicable
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Density

Remarks	not determined
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Solubility in water

Value	260		g/l
Temperature	25	°C	

Partition coefficient: n-octanol/water

log Pow	1.71	
Temperature	234	°C

Decomposition temperature

Value	234	°C
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9.2. Other information**Solvent content**

Value	0.00	%
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Other information

The product is not dangerous for explosions.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Keep away from sources of heat and ignition. shock. Sensitive to moisture.

10.5. Incompatible materials

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. Oxidising agents, Bases

10.6. Hazardous decomposition products

In the event of fire the following can be released: Carbon monoxide and carbon dioxide, nitrous oxides (NOx), Hydrogen chloride (HCl), Toxic gases/vapours

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	200	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

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Acute oral toxicity (Components)**cetylpyridinium chloride**

Species	rat		
LD50	200		mg/kg

Acute inhalational toxicity

ATE	0.5		mg/l
Administration/Form	Vapors		
Method	calculated value (Regulation (EC) No. 1272/2008)		
ATE	0.05		mg/l
Administration/Form	Dust/Mist		
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute inhalative toxicity (Components)**cetylpyridinium chloride**

Species	rat		
LC50	90		mg/m ³
Duration of exposure	4	h	

Skin corrosion/irritation

Remarks	Irritating effects on the skin and mucous membrane.
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Serious eye damage/irritation

evaluation	irritant
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Sensitization

Remarks	No sensitisation effect known.
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Sensitization (Components)**cetylpyridinium chloride**

evaluation	non-sensitizing
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Mutagenicity (Components)**cetylpyridinium chloride**

evaluation	No experimental indications on genotoxicity in vivo found.
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SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**

Species	carp (Cyprinus carpio)		
LC50	0.01		mg/l
Duration of exposure	96	h	

Bacteria toxicity

EC50	0.22		mg/l
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12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

log Pow	1.71		
Temperature	234	°C	

12.6. Other adverse effects**General information / ecology**

Product is highly hazardous to water. Do not allow it to reach soil, ground water, water bodies or sewage system. Hazard for drinking water supplies.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods







Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	2811	2811	2811
14.2. UN proper shipping name	TOXIC SOLID, ORGANIC, N.O.S. (cetylpyridinium chloride)	TOXIC SOLID, ORGANIC, N.O.S. (cetylpyridinium chloride)	TOXIC SOLID, ORGANIC, N.O.S. (cetylpyridinium chloride)
14.3. Transport hazard class(es)	6.1	6.1	6.1
Label			
14.4. Packing group	II	II	II
Limited Quantity	500 g		
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 3

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

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SECTION 16: Other information**Hazard statements listed in Chapter 3**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

CLP categories listed in Chapter 3

Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
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.