



Trade name: Hexadecyl-Pyridiniumchlorid monohydrat

Substance number: 712540

Version: 2 / CH

Date revised: 22.06.12

Replaces Version: 1 / CH

Date of printing: 22.06.12

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Hexadecyl-Pyridiniumchlorid monohydrat  
Item-No. 71254002

### 1.3. Details of the supplier of the safety data sheet

#### Address

Hänseler AG  
Industriestrasse 35  
9101 Herisau  
Telephone no. 0041 (0)71 353 58 58  
E-mail address of person responsible for this SDS sdb@haenseler.ch

### 1.4. Emergency telephone number

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

## 2. Hazards identification \*\*\*

### 2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)  
Acute Tox. 3 H301  
Skin Irrit. 2 H315  
Eye Irrit. 2 H319  
Acute Tox. 2 H330  
STOT SE 3 H335  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

#### Classification in accordance with EC directives

Classification T+, R26  
T, R25  
Xi, R36/37/38  
N, R50/53

### 2.2. Label elements

#### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal Word

Danger

#### Hazard statements

H301 Toxic if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.



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H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
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.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501.1 Dispose of contents/container to industrial incineration plant.

**Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC**

The product is classified and labelled in accordance with EC directives/the relevant national laws.

**Hazard symbols**

Dangerous for the environment



Very toxic

**R phrases**

25 Toxic if swallowed.  
26 Very toxic by inhalation.  
36/37/38 Irritating to eyes, respiratory system and skin.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases \*\*\***

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
28 After contact with skin, wash immediately with plenty of . . . (to be specified by the manufacturer).  
36/37 Wear suitable protective clothing and gloves.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
57 Use appropriate container to avoid environmental contamination.  
60 This material and its container must be disposed of as hazardous waste.  
61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Hazardous component(s) to be indicated on label**

contains cetylpyridinium chloride

**3. Composition/information on ingredients****Chemical characterization**

Hexadecyl-Pyridiniumchlorid monohydrat

**Hazardous ingredients****cetylpyridinium chloride**

CAS No. 6004-24-6  
EINECS no. 204-593-9  
Concentration >= 50 %



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

H301

H315

H319

H330

H335

H400

H410

## **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.). Begin with medical treatment.

#### **After ingestion**

When swallowed seek medical aid immediately and show the physician the packaging or the label of the packaging. 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.

## **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<sub>x</sub>); Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); 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.



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## **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 heading "Disposal".

## **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). Open and handle 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 - refrain from smoking. Take precautionary measures against static charges.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep in a cool place.

#### **Hints on storage assembly**

Not required.

#### **Further information on storage conditions**

Protect from light. Store in a dry place. Do not keep at temperatures above 30 °C. Keep container tightly closed in a cool, well-ventilated place.

## **8. Exposure controls/personal protection**

### **8.2. Exposure controls**

#### **Exposure controls**

See chapter 7. No measures exceeding the ones mentioned are necessary.

#### **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/mist. Avoid contact with eyes and skin. 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



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**Eye protection**

Safety glasses

**Body protection**

Protective clothing

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

<b>Form</b>	Powder
<b>Colour</b>	white
<b>Odour</b>	characteristic
<b>Melting point</b>	
Value	77 to 83 °C
<b>Boiling point</b>	
Remarks	Not determined
<b>Flash point</b>	
Value	°C
Remarks	Not applicable
<b>Flammability</b>	
Not ignitable	
<b>Density</b>	
Remarks	Not determined
<b>Solubility in water</b>	
Remarks	soluble

**9.2. Other information****Solvent content**

Value 0.00 %

**Other information**

The product is not dangerous for explosions.

**10. Stability and reactivity****10.4. Conditions to avoid**

No decomposition if stored and applied as directed.

**10.5. Incompatible materials**

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

**10.6. Hazardous decomposition products**

None known

**11. Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**Species rat  
LD50 200 mg/kg**Acute inhalational toxicity**

Species rat



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LC50	0.09	mg/l
Duration of exposure	4	h

**Skin corrosion/irritation**

Remarks Irritating effects on the skin and mucous membrane.

**Serious eye damage/irritation**

valuation irritant

**Sensitization**

Remarks No sensitisation effect known.

**12. Ecological information****12.1. Toxicity****Fish toxicity**

Species	carp (Cyprinus carpio)	
LC50	0.09	mg/l
Duration of exposure	96	h

**Bacteria toxicity**

EC50	0.22	mg/l
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**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.

**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.

**14. Transport information \*\*\*****Land transport ADR/RID \*\*\*****14.1. UN number**

UN 2810

**14.2. UN proper shipping name**

TOXIC LIQUID, ORGANIC, N.O.S

Danger releasing substance cetylpyridinium chloride

**14.3. Transport hazard class(es)**

Class 6.1

Label 6.1

**14.4. Packing group**

Packing group I

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS

**Marine transport IMDG/GGVSee \*\*\*****14.1. UN number**

UN 2810

**14.2. UN proper shipping name**



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TOXIC LIQUID, ORGANIC, N.O.S

Danger releasing substance cetylpyridinium chloride

**14.3. Transport hazard class(es)**

Class 6.1

**14.4. Packing group**

Packing group I

Environmental labelling ENVIRONMENTALLY HAZARDOUS

**Air transport ICAO/IATA \*\*\*****14.1. UN number**

UN 2810

**14.2. UN proper shipping name**

TOXIC LIQUID, ORGANIC, N.O.S

Danger releasing substance cetylpyridinium chloride

**14.3. Transport hazard class(es)**

Class 6.1

**14.4. Packing group**

Packing group I

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS

**15. Regulatory information****16. Other information****Hazard statements listed in chapter 3**

H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**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.