According to Canadian Hazardous Products Regulations and WHMIS 2015

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## Hydroxylammonium Chloride, ACS

## **SECTION 1: Identification**

**Product identifier** 

Product name: Hydroxylammonium Chloride, ACS

Product code: HC5000

Recommended use of the product and restriction on use

**Relevant identified uses:** Not determined or not applicable. **Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

### Manufacturer or supplier details

Manufacturer: United States

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

## **Emergency telephone number:**

**United States** 

**AquaPhoenix Scientific Inc.** 

Emergency Telephone No.: 800-255-3924

#### **SECTION 2: Hazard identification**

#### **GHS** classification:

Corrosive to metals, category 1

Acute toxicity (dermal), category 4

Skin irritation, category 2

Eye irritation, category 2A

Skin sensitization, category 1

Carcinogenicity, category 2

Specific target organ toxicity - repeated exposure, category 2

Acute aquatic hazard, category 1

Chronic aquatic hazard, category 1

Acute toxicity (oral), category 3

### **Label elements**

#### **Hazard pictograms:**











Signal word: Danger

## **Hazard statements:**

H290 May be corrosive to metals H312 Harmful in contact with skin H315 Causes skin irritation

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## **Hydroxylammonium Chloride, ACS**

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H351 Suspected of causing cancer

H373 May cause damage to organs through prolonged or repeated exposure

H301 Toxic if swallowed

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

### Precautionary statements:

P234 Keep only in original container

P280 Wear protective gloves/protective clothing/eye protection/face protection

P264 Wash skin thoroughly after handling

P272 Contaminated work clothing should not be allowed out of the workplace

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P273 Avoid release to the environment

P270 Do not eat, drink or smoke when using this product

P390 Absorb spillage to prevent material damage

P302+P352+P312 If on skin: Wash with soap and water. Call a poison center or doctor/physician if you feel unwell

P321 Specific treatment (see supplemental first aid instructions on this label).

P362 Take off contaminated clothing and wash before reuse

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

P308+P313 If exposed or concerned: Get medical advice/attention

P391 Collect spillage

P301+P330+P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

P406 Store in corrosive resistant stainless steel container with a resistant inner liner

P405 Store locked up

P501 Dispose of contents and container as instructed in Section 13

#### Hazards not otherwise classified: None

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

Identification	Name	Weight %
CAS number: 5470-11-1	Hydroxylammonium Chloride	100

Additional Information: None

#### **SECTION 4: First-aid measures**

#### **Description of first-aid measures**

#### **General notes:**

Not determined or not available.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

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## Hydroxylammonium Chloride, ACS

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

#### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Wash affected area with soap and water

Seek medical attention if symptoms develop or persist

### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lenses, if present and easy to do

Continue rinsing

Get medical advice/attention

Remove contact lens(es) if able to do so during rinsing

Seek medical attention if irritation persists or if concerned

### After ingestion:

Rinse mouth and then drink plenty of water

Do not induce vomiting

Get medical advice/attention if you feel unwell

Immediately call a POISON CONTROL CENTER or seek medical attention

### Most important symptoms and effects, both acute and delayed

### Acute symptoms and effects:

Not determined or not available.

#### **Delayed symptoms and effects:**

Not determined or not available.

#### Immediate medical attention and special treatment

#### **Specific treatment:**

Not determined or not available.

## Notes for the doctor:

Not determined or not available.

## **SECTION 5: Fire-fighting measures**

### **Extinguishing media**

### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### Unsuitable extinguishing media:

Not determined or not applicable.

### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

### **Special protective equipment for firefighters:**

Wear protective eye wear, gloves and clothing

Refer to Section 8

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

### **Special precautions:**

Heating causes a rise in pressure, risk of bursting and combustion Shut off sources of ignition

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## Hydroxylammonium Chloride, ACS

Carbon monoxide and carbon dioxide may form upon combustion

#### **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

### **Environmental precautions:**

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

### Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

#### Reference to other sections:

Not determined or not applicable.

#### SECTION 7: Handling and storage

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only with adequate ventilation.

#### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Store away from foodstuffs.

#### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

## **Occupational Exposure limit values:**

No occupational exposure limits noted for the ingredient(s).

### **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Not determined or not applicable.

### **Appropriate engineering controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

### Personal protection equipment

## Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

### Skin and body protection:

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## Hydroxylammonium Chloride, ACS

Select glove material impermeable and resistant to the substance.

## **Respiratory protection:**

When necessary, use NIOSH-approved breathing equipment.

## **General hygienic measures:**

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

## **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

Appearance (physical state, color):	Clear colorless liquid
Odor:	Odorless to slightly pungent
Odor threshold:	Not determined or not available.
pH-value:	2.5 - 3.5 at 50 g/l at 20°C
Melting/Freezing point:	Approx 0°C
Boiling point/range:	Approx 100°C
Flash point:	Not determined or not available.
Evaporation rate:	3.2
Flammability (solid, gaseous):	Not determined or not available.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	Not determined or not available.
Vapor pressure:	Not determined or not available.
Vapor density:	Not determined or not available.
Density:	Not determined or not available.
Relative density:	1.67 g/cm3 at 25°C
Solubilities:	Not determined or not available.
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	>150°C
Dynamic viscosity:	Not determined or not available.
Kinematic viscosity:	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

#### Other information

## SECTION 10: Stability and reactivity

### Reactivity:

Does not react under normal conditions of use and storage.

### **Chemical stability:**

Stable under normal conditions of use and storage.

## Possibility of hazardous reactions:

According to Canadian Hazardous Products Regulations and WHMIS 2015

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## Hydroxylammonium Chloride, ACS

None under normal conditions of use and storage.

#### **Conditions to avoid:**

None known.

#### Incompatible materials:

None known.

### **Hazardous decomposition products:**

None known.

## **SECTION 11: Toxicological information**

### **Acute toxicity**

Assessment: Harmful in contact with skin Toxic if swallowed

Product data: No data available.

Substance data:

Name	Route	Result
Hydroxylammonium Chloride	oral	LD50: Rat - 141 mg/kg

#### Skin corrosion/irritation

**Assessment:** Causes skin irritation **Product data:** No data available.

Substance data:

Name	Result
Hydroxylammonium Chloride	Causes skin irritation.

#### Serious eye damage/irritation

Assessment: Causes serious eye irritation

Product data: No data available.

**Substance data:** 

Name	Result
Hydroxylammonium Chloride	Causes serious eye irritation.

## Respiratory or skin sensitization

**Assessment:** May cause an allergic skin reaction

Product data: No data available.

Substance data:

Name	Result
Hydroxylammonium Chloride	May cause an allergic skin reaction.

## Carcinogenicity

**Assessment:** Suspected of causing cancer

Product data: No data available.

Substance data:

Name	Species	Result
Hydroxylammonium Chloride	Hydroxylammonium Chloride	Suspected of causing cancer.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

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## Hydroxylammonium Chloride, ACS

### Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

### Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

#### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
	Specific Target Organ Toxicity, Repeated Exposure - May cause damage to organs through prolonged or repeated exposure.

#### Specific target organ toxicity (repeated exposure)

Assessment: May cause damage to organs through prolonged or repeated exposure

Product data: No data available.

Substance data: No data available.

### **Aspiration toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

### **SECTION 12: Ecological information**

#### Acute (short-term) toxicity

Assessment: Very toxic to aquatic life Product data: No data available. Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

# Persistence and degradability

**Product data:** No data available. **Substance data:** No data available.

### **Bioaccumulative potential**

**Product data:** No data available. **Substance data:** No data available.

## Mobility in soil

Product data: No data available.

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## Hydroxylammonium Chloride, ACS

Substance data: No data available.

Other adverse effects: No data available.

### **SECTION 13: Disposal considerations**

### **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

## **SECTION 14: Transport information**

### Canadian Transportation of Dangerous Goods (TDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

## **International Maritime Dangerous Goods (IMDG)**

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

# SECTION 15: Regulatory information

## **Canada regulations**

# **Domestic substances list (DSL):**

5470-11-1	Hydroxylammonium Chloride	Listed	l
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Non-domestic substances list (NDSL): Not determined.

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## Hydroxylammonium Chloride, ACS

### **SECTION 16: Other information**

### Abbreviations and Acronyms: None

### Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA:** 3-0-1 **HMIS:** 3-0-1

**Initial preparation date:** 01.24.2018

**End of Safety Data Sheet**