According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.20.2018 Page 1 of 8

# Potassium Hydroxide, ACS

# **SECTION 1: Identification**

**Product identifier** 

Product name: Potassium Hydroxide, ACS

**Product code:** PH1003

Recommended use of the product and restriction on use

Relevant identified uses: Laboratory Chemicals

**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** 

ChemTel Inc

+1(800)255-3924

+1(813)248-0585

# **SECTION 2: Hazard identification**

#### **GHS** classification:

Acute toxicity (oral), category 4 Skin corrosion, category 1A

#### **Label elements**

# Hazard pictograms:





Signal word: Danger

#### **Hazard statements:**

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

#### **Precautionary statements:**

P264 Wash skin thoroughly after handling

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

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

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

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

P363 Wash contaminated clothing before reuse

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.20.2018 Page 2 of 8

# Potassium Hydroxide, ACS

P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician

P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

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: 1310-58-3	Potassium hydroxide	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

Maintain an unobstructed airway

Move exposed individual to fresh air

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Immediately remove all contaminated clothing

Wash affected area with soap and water

Immediately call a POISON CONTROL CENTER or seek medical attention

# After eye contact:

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

If symptoms develop or persist, seek medical attention

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

Immediately call a POISON CONTROL CENTER or seek medical attention

### After ingestion:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

Do not induce vomiting

Rinse mouth and then drink plenty of water

Immediately call a POISON CONTROL CENTER or seek medical attention

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Initial preparation date: 01.20.2018 Page 3 of 8

### Potassium Hydroxide, ACS

# 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

#### Special precautions:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols Avoid contact with skin, eyes and clothing

#### **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:

Wear protective eye wear, gloves and clothing

### 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.

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.20.2018 Page 4 of 8

# Potassium Hydroxide, ACS

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

Store in a cool, well-ventilated area.

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

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Potassium hydroxide	1310-58-3	ACGIH TLV C 2.0 mg/m <sup>3</sup>
NIOSH	Potassium hydroxide	1310-58-3	NIOSH REL C 2.0 mg/m <sup>3</sup>

# **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.

# **Personal protection equipment**

### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

# Skin and body protection:

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.

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

# Information on basic physical and chemical properties

Appearance (physical state, color):	White solid
Odor:	Odorless
Odor threshold:	Not determined or not available.
pH-value:	13.5 (0.1M)
Melting/Freezing point:	360°C / 680°F
Boiling point/range:	1320°C / 2408°F
Flash point:	Not determined or not available.
Evaporation rate:	Not determined or not available.
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:	1 mmHg @719C

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.20.2018 Page 5 of 8

# Potassium Hydroxide, ACS

Vapor density:	Not determined or not available.
Density:	Not determined or not available.
Relative density:	Not determined or not available.
Solubilities:	Very soluble, 1130 g/L at 20 °C
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	Not determined or not available.
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

Specific Gravity	2.04

# **SECTION 10: Stability and reactivity**

# Reactivity:

Does not react under normal conditions of use and storage.

### Chemical stability:

No decomposition if used and stored according to specifications. stable, readily absorbs carbon dioxide and moisture to from the air and deliquesces.

# Possibility of hazardous reactions:

None under normal conditions of use and storage.

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

Dust formation, exposure to moist air or water. Incompatible Materials.

### Incompatible materials:

Acids, metals. Strong acids. Strong bases.

# **Hazardous decomposition products:**

Potassium oxides. Hydrogen gas. Carbon oxides (CO, CO2).

# **SECTION 11: Toxicological information**

### **Acute toxicity**

**Assessment:** Harmful if swallowed **Product data:** No data available.

**Substance data:** 

Name	Route	Result
Potassium hydroxide	oral	LD50 - Rat - 333 mg/kg

### Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

**Substance data:** 

Name	Result
Potassium hydroxide	Causes severe skin burns and eye damage.

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.20.2018 Page 6 of 8

# Potassium Hydroxide, ACS

#### Serious eye damage/irritation

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

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

# Respiratory or skin sensitization

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

Product data: No data available.

Substance data: No data available.

#### Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

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

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

# 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:** No data available.

# Specific target organ toxicity (repeated exposure)

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

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

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

Chronic (long-term) toxicity

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.20.2018 Page 7 of 8

# Potassium Hydroxide, ACS

**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. **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) Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water

# **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	1813
UN proper shipping name	POTASSIUM HYDROXIDE, SOLID
UN transport hazard class(es)	8 CORROSUE
Packing group	II
Environmental hazards	None
Special precautions for user	None
Excepted quantities	30g/30mL
Limited quantity	1KG

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

UN number	1813
oit number	1015

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.20.2018 Page 8 of 8

# Potassium Hydroxide, ACS

UN proper shipping name	POTASSIUM HYDROXIDE, SOLID
UN transport hazard class(es)	8 CORROGSVE
Packing group	II
Environmental hazards	None
Special precautions for user	None
Excepted quantities	30g/30mL
Passenger and cargo	15KG
Cargo aircraft only	50KG
Limited quantity	1KG

#### **SECTION 15: Regulatory information**

# Canada regulations

**Domestic substances list (DSL):** 

1310-58-3 Potassium hydroxide Listed

Non-domestic substances list (NDSL): Not determined.

### **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: 01.20.2018

**End of Safety Data Sheet**