P3300+P310

# **Safety Data Sheet**

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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Acetic Acid, 25%v/v

# **SECTION 1: Identification**

**Product identifier** 

**Product name:** Acetic Acid, 25%v/v **Product code:** KEMAA2195-B

### 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: Supplier: United States United States

AquaPhoenix Scientific AquaPhoenix Scientific Inc.

860 Gitts Run Road 860 Gitts Run Road

Hanover PA 17331 PA 17331 (717) 632-1291 (717) 632-1291

# **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

# SECTION 2: Hazard(s) identification

#### **GHS classification:**

Skin corrosion, category 1A Serious eye damage, category 1

#### **Label elements**

#### Hazard pictograms:



**Signal word:** Danger **Hazard statements:** 

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

### **Precautionary statements:**

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

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P321 p lemental first aid instructions on this label).

P363 W lothing before reuse.

P304+P If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for

breathin. Immediately call a poison center or doctor/physician.

P301+P IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON

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#### Acetic Acid, 25%v/v

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: 7732-18-5	Water	75
CAS number: 64-19-7	Acetic Acid	25

Additional Information: None

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

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

#### **General notes:**

Not determined or not applicable.

#### After inhalation:

Move exposed individual to fresh air

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After skin contact:

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

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

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After swallowing:

Immediately call a POISON CONTROL CENTER or seek medical attention

Do not induce vomiting

Rinse mouth and then drink plenty of water

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

#### Acute symptoms and effects:

Not determined or not applicable.

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

Not determined or not applicable.

### Immediate medical attention and special treatment

Specific treatment:

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#### Acetic Acid, 25%v/v

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

# **SECTION 5: Firefighting 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

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

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#### Acetic Acid, 25%v/v

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Acetic Acid	64-19-7	ACGIH TLV TWA 10 ppm
	Acetic Acid	64-19-7	ACGIH TLV STEL 15 ppm
United States (OSHA)	Acetic Acid	64-19-7	OSHA PEL TWA 10 ppm
	Acetic Acid	64-19-7	OSHA PEL TWA 25 mg/m <sup>3</sup>
NIOSH	Acetic Acid	64-19-7	NIOSH REL TWA 10 ppm
	Acetic Acid	64-19-7	NIOSH REL TWA 25 mg/m <sup>3</sup>
	Acetic Acid	64-19-7	NIOSH REL ST 15 ppm
	Acetic Acid	64-19-7	NIOSH REL ST 37 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.

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:

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	Clear colorless liquid
Odor	Vinegar-like
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point/range	100-118 °C
Flash point (closed cup)	Not available
Evaporation rate	Not available

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#### Acetic Acid, 25%v/v

Not available
Not available
Not determined or not available.
Not available
Not determined or not available.
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:

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

Product data: No data available.

Substance data: No data available.

# Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

Substance data:

Name	Result
Acetic Acid	Causes severe skin burns and eye damage.

# Serious eye damage/irritation

Assessment: Causes serious eye damage

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#### Acetic Acid, 25%v/v

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

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

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#### Acetic Acid, 25%v/v

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)

# **SECTION 14: Transport information**

# United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN 2790
UN proper shipping name	Acetic acid solution
UN transport hazard class(es)	8
Packing group	III
Environmental hazards	None
Special precautions for user	None

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

UN number	UN 2790
UN proper shipping name	Acetic acid solution
UN transport hazard class(es)	8
Packing group	III
Environmental hazards	None
Special precautions for user	None

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

UN number	UN 2790	
UN proper shipping name	Acetic acid solution	
UN transport hazard class(es)	8	SWE
Packing group	III	
Environmental hazards	None	
Special precautions for user	None	

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#### Acetic Acid, 25%v/v

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code			
Bulk Name	None		
Ship type	None		
Pollution category	None		

### SECTION 15: Regulatory information

# **United States regulations**

# Inventory listing (TSCA):

7732-18-5	Water	Listed
64-19-7	Acetic Acid	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals: Not determined.

#### **CERCLA:**

64-19-7	Acetic Acid	Listed	5000	l
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RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

#### Massachusetts Right to Know:

64-19-7	Acetic Acid	Listed
7732-18-5		Not
		List

#### **New Jersey Right to Know:**

64-19-7	Not Listed
7732-18-5	Not Listed

#### **New York Right to Know:**

64-19-7	Acetic Acid	Listed
7732-18-5	Water	Not
		Listed

# Pennsylvania Right to Know:

64-19-7	Not Listed
7732-18-5	Not Listed

California Proposition 65: Not determined.

# **SECTION 16: Other information**

**Abbreviations and Acronyms: None** 

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Acetic Acid, 25%v/v

#### 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:** 2-1-0 **HMIS:** 2-1-0

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**End of Safety Data Sheet** 

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# **Ammonium Chloride, ACS Grade**

### **SECTION 1: Identification**

**Product identifier** 

Product name: Ammonium Chloride, ACS Grade

Product code: KEMAC8235-E

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: Supplier:

AquaPhoenix Scientific AquaPhoenix Scientific Inc.

860 Gitts Run Road 860 Gitts Run Road

Hanover Hanover PA 17331 PA 17331 (717) 632-1291 (717) 632-1291

#### **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

# SECTION 2: Hazard(s) identification

#### **GHS classification:**

Acute toxicity (oral), category 4 Eye irritation, category 2A

#### **Label elements**

### Hazard pictograms:



Signal word: Warning

### **Hazard statements:**

H319 Causes serious eye irritation

H302 Harmful if swallowed

# **Precautionary statements:**

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

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

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

P302+P352 If on skin: Wash with soap and water

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if

present . Continue rinsing

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

unwell.

P405 St locked up

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# **Ammonium Chloride, ACS Grade**

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: 12125-02-9	Ammonium Chloride	100

**Additional Information: None** 

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

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

#### General notes:

Not determined or not applicable.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Move exposed individual to fresh air

Call a POISON CONTROL CENTER or seek medical 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

If symptoms develop or persist, seek medical attention

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

Seek medical attention if irritation persists or if concerned

# After swallowing:

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

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

#### Acute symptoms and effects:

Not determined or not applicable.

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

Not determined or not applicable.

#### Immediate medical attention and special treatment

#### **Specific treatment:**

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

### **SECTION 5: Firefighting measures**

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# **Ammonium Chloride, ACS Grade**

#### **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.

#### 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:

e dealers and Exposure sum variable			
Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Ammonium Ch <b>l</b> oride	12125-02-9	ACGIH TLV TWA 10.0 mg/m <sup>3</sup>
	Ammonium Chloride	12125-02-9	ACGIH TLV STEL 20.0 mg/m <sup>3</sup>
NIOSH	Ammonium Chloride	12125-02-9	NIOSH REL TWA 10.0 mg/m <sup>3</sup>
	Ammonium Chloride	12125-02-9	NIOSH REL ST 20.0 mg/m <sup>3</sup>

#### **Biological limit values:**

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

#### Information on monitoring procedures:

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# **Ammonium Chloride, ACS Grade**

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	White solid
Odor	Odorless
Odor threshold	Not determined.
рН	5.0 - 5.5 (1-10%) aqueous soln.
Melting point/freezing point	Approx. 338°C (sublimes)
Initial boiling point/range	Approx. 520°C
Flash point (closed cup)	Not applicable.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not determined.
Upper flammability/explosive limit	Not determined.
Lower flammability/explosive limit	Not determined.
Vapor pressure	Not determined.
Vapor density	Not determined.
Density	Not determined.
Relative density	Not applicable.
Solubilities	Approx. 29.7g/100 g water at 0°C available.
Partition coefficient (n-octanol/water)	Not determined.
Auto/Self-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Dynamic viscosity	Not determined.
Kinematic viscosity	Not determined.
Explosive properties	Not determined.
Oxidizing properties	Not determined.

#### Other information

# SECTION 10: Stability and reactivity

# Reactivity:

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# **Ammonium Chloride, ACS Grade**

Does not react under normal conditions of use and storage.

### **Chemical stability:**

Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

None under normal conditions of use and storage.

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

None known.

#### Incompatible materials:

Acids, bases, silver salts. Reacts explosively with potassium chlorate or bromine trifluoride. Reacts violently with bromide pentafluoride, ammonium compounds, nitrates and iodine heptafluoride.

#### Hazardous decomposition products:

Ammonia, hydrogen chloride.

# **SECTION 11: Toxicological information**

#### **Acute toxicity**

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

**Substance data:** 

Name	Route	Result
Ammonium Chloride	oral	LD50 - Mouse: 1300 mg/kg

#### Skin corrosion/irritation

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

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

Serious eye damage/irritation

**Assessment:** Causes serious eye irritation

Product data: No data available.

Substance data:

Name	Result
Ammonium Chloride	Causes serious eye irritation.

### 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** 

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### **Ammonium Chloride, ACS Grade**

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

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)

# **SECTION 14: Transport information**

### United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated.

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# **Ammonium Chloride, ACS Grade**

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

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Bulk Name None	
Ship type None	
Pollution category None	

# SECTION 15: Regulatory information

# **United States regulations**

**Inventory listing (TSCA):** 

12125-02-9	Ammonium Chloride	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not listed.

SARA Section 313 toxic chemicals: Not listed.

**CERCLA:** 

12125-02-9 Ammonium Chloride L	Listed	5000 lbs.
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RCRA: Not listed.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

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# **Ammonium Chloride, ACS Grade**

12125-02-9 Ammonium Chloride Listed

New Jersey Right to Know: NJ RTK Substance Number: 0093 NJ Assigned DOT Number: 3077

New York Right to Know: The Reportable Quantity (RQ) for releases to air is: 5000 lbs. The Reportable

Quantity (RQ) for releases to land or water is: 100 lbs.

Pennsylvania Right to Know: PA Environmental Hazard (subject to release reporting): E

**California Proposition 65:** None of the ingredients are listed.

#### **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:** 2-0-0 **HMIS:** 2-0-0

Initial preparation date: 09.25.2017

**End of Safety Data Sheet** 

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.25.2017 Page 1 of 9

# Ammonium Hydroxide 20% v/v(3M)

#### **SECTION 1: Identification**

**Product identifier** 

**Product name:** Ammonium Hydroxide 20% v/v(3M)

Product code: KEMAH1040-AA

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: Supplier: United States United States

AquaPhoenix Scientific AquaPhoenix Scientific Inc.

860 Gitts Run Road 860 Gitts Run Road

Hanover PA 17331 PA 17331 (717) 632-1291 (717) 632-1291

#### **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

#### SECTION 2: Hazard(s) identification

# **GHS classification:**

Skin corrosion, category 1B Serious eye damage, category 1

#### **Label elements**

### Hazard pictograms:



Signal word: Danger

#### **Hazard statements:**

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

# **Precautionary statements:**

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

P264 Wash skin thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection P321 Specific treatment (see supplemental first aid instructions on this label).

P363 W lothing before reuse

P304+P If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for

breathin . Immediately call a poison center or doctor/physician

P301+P IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON

CENTER .

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# Ammonium Hydroxide 20% v/v(3M)

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: 7732-18-5	Water	80
CAS number: 1336-21-6	Ammonium Hydroxide	20

Additional Information: None

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

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

#### **General notes:**

Not determined or not applicable.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

Move exposed individual to fresh air

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After skin contact:

Wash affected area with soap and water

Seek medical attention if symptoms develop or persist

Immediately remove all contaminated clothing

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

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

Seek medical attention if irritation persists or if concerned

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After swallowing:

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 applicable.

# **Delayed symptoms and effects:**

Not determined or not applicable.

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# Ammonium Hydroxide 20% v/v(3M)

#### Immediate medical attention and special treatment

### **Specific treatment:**

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

# **SECTION 5: Firefighting 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

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.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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# Ammonium Hydroxide 20% v/v(3M)

### 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	Ammonium Hydroxide	1336-21-6	ACGIH TLV TWA 25 ppm (NH₃)
	Ammonium Hydroxide	1336-21-6	ACGIH TLV STEL 35 ppm (NH₃)
United States (OSHA)	Ammonium Hydroxide	1336-21-6	OSHA PEL TWA 50 ppm (NH₃)
	Ammonium Hydroxide	1336-21-6	OSHA PEL TWA 35 mg/m³ (NH₃)
NIOSH	Ammonium Hydroxide	1336-21-6	NIOSH REL TWA 25 ppm (NH₃)
	Ammonium Hydroxide	1336-21-6	NIOSH REL TWA 18 mg/m³ (NH₃)
	Ammonium Hydroxide	1336-21-6	NIOSH REL ST 35 ppm (NH₃)
	Ammonium Hydroxide	1336-21-6	NIOSH REL ST 27 mg/m³ (NH₃)

#### **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:

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	Clear, colorless liquid
Odor	Ammonia odor
Odor threshold	Not available
рН	10.6-11.6
Melting point/freezing point	Approx. 0°C
Initial boiling point/range	Approx. 100°C
Flash point (closed cup)	Not available

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# Ammonium Hydroxide 20% v/v(3M)

Not available
Not available
Not available
Not available
115 at 20°C
Not available
Not available
Approx. 0.9-1.0
Not determined or not available.
Not available
Not determined or not available.
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:

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

Product data: No data available.

Substance data: No data available.

# Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

Substance data:

Name	Result
Ammonium Hydroxide	Causes severe skin burns and eye damage.

### Serious eye damage/irritation

**Assessment:** Causes serious eye damage

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### Ammonium Hydroxide 20% v/v(3M)

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:

Name	Result
Ammonium Hydroxide	LC50 - Coho salmon - 0.45 mg/L - 96 h

### Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

#### Persistence and degradability

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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# Ammonium Hydroxide 20% v/v(3M)

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)

# **SECTION 14: Transport information**

# United States Transportation of dangerous goods (49 CFR DOT)

UN number	2672
UN proper shipping name	Ammonia Solution
UN transport hazard class(es)	8
Packing group	III
Environmental hazards	None
Special precautions for user	None

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

UN number	2672
UN proper shipping name	Ammonia Solution
UN transport hazard class(es)	8
Packing group	III
Environmental hazards	None
Special precautions for user	None

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

UN number	2672
UN proper shipping name	Ammonia Solution
UN transport hazard class(es)	8
Packing group	III
Environmental hazards	None
Special precautions for user	None

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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# Ammonium Hydroxide 20% v/v(3M)

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
Bulk Name None		
Ship type	None	
Pollution category None		

# **SECTION 15: Regulatory information**

# **United States regulations**

# **Inventory listing (TSCA):**

1336-21-6	Ammonium Hydroxide	Listed
7732-18-5	Water	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

**Export notification under TSCA Section 12(b):** Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
Yes	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

# **SARA Section 313 toxic chemicals:**

1336-21-6	Ammonium Hydroxide	Listed
 CL A.		

# **CERCLA:**

1336-21-6   Ammonium Hydroxide   Listed   1000	1336-21-6	Ammonium Hydroxide	Listed	1000
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RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

# Massachusetts Right to Know:

1336-21-6	Ammonium Hydroxide	Listed
7732-18-5		Not Listed

# **New Jersey Right to Know:**

1336-21-6	Ammonium Hydroxide	Not Listed
7732-18-5	Water	Not Listed

# **New York Right to Know:**

1336-21-6	Ammonium Hydroxide	Listed
7732-18-5		Not Listed

#### **Pennsylvania Right to Know:**

1336-21-6	Ammonium Hydroxide	Listed
7732-18-5	Water	Not
		Listed

California Proposition 65: Not determined.

# **SECTION 16: Other information**

**Abbreviations and Acronyms: None** 

Disclaimer:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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# Ammonium Hydroxide 20% v/v(3M)

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:** 2-0-0 **HMIS:** 2-0-0

Initial preparation date: 04.25.2017

**End of Safety Data Sheet** 

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 01.24.2018 Page 1 of 9

# **Hydrochloric Acid,12M**

### **SECTION 1: Identification**

**Product identifier** 

**Product name:** Hydrochloric Acid,12M **Product code:** KEMHA1000-AA

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: Supplier:

AquaPhoenix Scientific AquaPhoenix Scientific Inc.

860 Gitts Run Road 860 Gitts Run Road

Hanover PA 17331 PA 17331 (717) 632-1291 (717) 632-1291

#### **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

# SECTION 2: Hazard(s) identification

#### **GHS classification:**

Corrosive to metals, category 1 Skin corrosion, category 1B Serious eye damage, category 1

Acute toxicity (oral), category 4

Specific target organ toxicity - single exposure, category 3, respiratory irritation

#### **Label elements**

# **Hazard pictograms:**





Signal word: Danger

**Hazard statements:** H290 May be corrosive to metals

H200 Unstable explosive

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H302 Harmful if swallowed

H335 May cause respiratory irritation

#### **Precautionary statements:**

P234 Keep only in original container

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

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### **Hydrochloric Acid, 12M**

P264 Wash skin thoroughly after handling

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

P201 Obtain special instructions before use

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

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

P271 Use only outdoors or in a well-ventilated area

P390 Absorb spillage to prevent material damage

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

P363 Wash contaminated clothing before reuse

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.

P372 Explosion risk in case of fire

P373 Do not fight fire when fire reaches explosives

P380 Evacuate area

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

P405 Store locked up

P401 Store ...

P403+P233 Store in a well ventilated place. Keep container tightly closed

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: 7732-18-5	Water	50-70
CAS number: 7647-01-0	Hydrochloric acid	30-50

Additional Information: None

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

#### Description of first aid measures

#### **General notes:**

Not determined or not applicable.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

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

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### **Hydrochloric Acid, 12M**

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

Remove contact lenses, if present and easy to do

Continue rinsina

Get medical advice/attention

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

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After swallowing:

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 applicable.

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

Not determined or not applicable.

# Immediate medical attention and special treatment

#### **Specific treatment:**

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

### SECTION 5: Firefighting 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

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

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# **Hydrochloric Acid,12M**

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:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Hydrochloric acid	7647-01-0	ACGIH TLV C 2.0 ppm
United States (OSHA)	Hydrochloric acid	7647-01-0	OSHA PEL C 5.0 ppm
	Hydrochloric acid	7647-01-0	OSHA PEL C 7.0 mg/m <sup>3</sup>
NIOSH	Hydrochloric acid	7647-01-0	NIOSH REL C 5.0 ppm
	Hydrochloric acid	7647-01-0	NIOSH REL C 7.0 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.

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:

Select glove material impermeable and resistant to the substance.

#### Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

#### General hygienic measures:

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# Hydrochloric Acid,12M

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	Clear, colorless liquid
Odor	Alcohol
Odor threshold	0.3 – 14.9 mg/m3
рН	< 1
Melting point/freezing point	- 74 C
Initial boiling point/range	81.5 - 110 C
Flash point (closed cup)	Not determined or not available.
Evaporation rate	>1.00
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	5.7 mmHg at 0°C
Vapor density	1.27 (Air = 1)
Density	Not determined or not available.
Relative density	1.0 - 1.2
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	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

# 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:

None under normal conditions of use and storage.

#### Conditions to avoid:

None known.

### **Incompatible materials:**

None known.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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# Hydrochloric Acid,12M

# Hazardous decomposition products:

None known.

# **SECTION 11: Toxicological information**

#### **Acute toxicity**

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

Substance data:

Name	Route	Result
Hydrochloric acid	inhalation	LC50 - Mouse - 1,108 ppm / 1h

#### Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

Substance data:

Name	Result
Hydrochloric acid	Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

**Assessment:** Causes serious eye damage

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):

Name	Classification
Hydrochloric acid	Group 3 - Not classifiable as to its carcinogenicity to humans

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:** May cause respiratory irritation

Product data: No data available.

Substance data: No data available.

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# Hydrochloric Acid,12M

# 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

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)

# SECTION 14: Transport information

# United States Transportation of dangerous goods (49 CFR DOT)

UN number UN1789

**UN proper shipping name** Hydrochloric Acid.

UN transport hazard class(es)

Packing g II
Environm I hazards None

Special p



According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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# Hydrochloric Acid,12M

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

UN number	UN1789	
UN proper shipping name	Hydrochloric Acid.	
UN transport hazard class(es)	8	SIVE
Packing group	II	
Environmental hazards	None	Ť
Special precautions for user	None	

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

UN number	UN1789
UN proper shipping name	Hydrochloric Acid.
UN transport hazard class(es)	8 CORROSIVE
Packing group	II
Environmental hazards	None
Special precautions for user	None

# SECTION 15: Regulatory information

# **United States regulations**

# Inventory listing (TSCA):

7647-01-0	Hydrochloric acid	Listed
7732-18-5	Water	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

**Export notification under TSCA Section 12(b):** Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

# SARA Section 302 extremely hazardous substances: Not determined.

# **SARA Section 313 toxic chemicals:**

7647-01-0	1,	Not Listed
7732-18-5	Water	Not Listed

# **CERCLA:**

7647-01-0 Hydrochloric acid Listed 5000 lb	bs.
--	-----

RCRA: Not determined.

# Section 112(r) of the Clean Air Act (CAA):

7647-01-0	Hydrochloric acid	Listed	l

# Massachusetts Right to Know:

7647-01-0	Hydrochloric acid	Listed
7732-18-5		Not
		Listed

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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# Hydrochloric Acid,12M

#### **New Jersey Right to Know:**

7647-01-0	Hydrochloric acid	Listed
7732-18-5		Not Listed

# **New York Right to Know:**

7647-01-0	Hydrochloric acid	Listed
7732-18-5	Water	Not
		Listed

### Pennsylvania Right to Know:

7647-01-0	Hydrochloric acid	Listed
7732-18-5		Not Listed
	l	Listed

**California Proposition 65:** None of the ingredients are listed.

# **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:** 1-3-0 **HMIS:** 0-3-0

**Initial preparation date:** 01.24.2018

**End of Safety Data Sheet** 

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.24.2018 Page 1 of 7

# **Sodium Acetate, Trihydrate**

#### **SECTION 1: Identification**

**Product identifier** 

Product name: Sodium Acetate, Trihydrate

Product code: KEMSA1100-E

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: Supplier:

AquaPhoenix Scientific AquaPhoenix Scientific Inc.

860 Gitts Run Road 860 Gitts Run Road

Hanover PA 17331 PA 17331 (717) 632-1291 (717) 632-1291

#### **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

# SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture

**Label elements** 

Hazard pictograms: None

Signal word: None

**Hazard statements:** None

Precautionary statements: None

Hazards not otherwise classified: None

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

Identification	Name	Weight %
CAS number: 6131-90-4	Sodium acetate trihydrate	>99

Additional Information: None

# **SECTION 4: First aid measures**

# **Description of first aid measures**

**General notes:** 

Not determined or not applicable.

After inhalation:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### **Sodium Acetate, Trihydrate**

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

#### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, 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

#### After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

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

#### Acute symptoms and effects:

Not determined or not applicable.

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

Not determined or not applicable.

### Immediate medical attention and special treatment

#### **Specific treatment:**

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

### SECTION 5: Firefighting 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:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.24.2018 Page 3 of 7

### **Sodium Acetate, Trihydrate**

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.

#### 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:

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.

#### 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	Crystalline powder, white
Odor	Odorless
Odor threshold	8.5 - 10 at 408 g/l at 25 °C (77 °F)
рН	Not determined
Melting point/freezing point	58°C
Initial boiling point/range	Not determined
Flash point (closed cup)	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper flammability/explosive limit	Not determined

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.24.2018 Page 4 of 7

### **Sodium Acetate, Trihydrate**

Lower flammability/explosive limit	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Density	Not determined
Relative density	Not determined
Solubilities	Soluble in water; 408 g/l at 20 °C (68 °F) - completely soluble
Partition coefficient (n-octanol/water)	Not determined
Auto/Self-ignition temperature	Not determined
Decomposition temperature	Not determined
Dynamic viscosity	Not determined
Kinematic viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	Not determined

#### 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:

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

Product data: No data available.

Substance data: No data available.

### Skin corrosion/irritation

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

Product data: No data available.

Substance data: No data available.

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.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.24.2018 Page 5 of 7

### **Sodium Acetate, Trihydrate**

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

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.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.24.2018 Page 6 of 7

# **Sodium Acetate, Trihydrate**

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

### United States Transportation of dangerous goods (49 CFR DOT)

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
<b>Environmental hazards</b>	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

# **United States regulations**

**Inventory listing (TSCA):** 

6131-90-4	Sodium acetate trihydrate	Not
		Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.24.2018 Page 7 of 7

### **Sodium Acetate, Trihydrate**

SARA Section 302 extremely hazardous substances: Not determined.

**SARA Section 313 toxic chemicals:** 

6131-90-4	Sodium acetate trihydrate	Not
		Listed

**CERCLA:** Not determined. **RCRA:** Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

6131-90-4	Sodium acetate trihydrate	Not
	•	Listed

**New Jersey Right to Know:** 

6131-90-4	Sodium acetate trihydrate	Not
		Listed

New York Right to Know:

C1 21 00 4

_	nnsylvania Right to	Know	
			Listed
	6131-90-4	Sodium acetate trinydrate	NOT

Nak

Pennsylvania Right to Know:

6131-90-4	Sodium acetate trihydrate	Not
		Listed

California Proposition 65: None of the ingredients are listed.

#### **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.

Initial preparation date: 02.24.2018

**End of Safety Data Sheet** 

P310

#### **Safety Data Sheet**

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.24.2017 Page 1 of 8

Sodium Hydroxide, 12.0N

#### **SECTION 1: Identification**

**Product identifier** 

Product name: Sodium Hydroxide, 12.0N

Product code: KEMSH6330-D

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: Supplier: United States

AquaPhoenix Scientific AquaPhoenix Scientific Inc.

860 Gitts Run Road 860 Gitts Run Road

Hanover PA 17331 PA 17331 (717) 632-1291 (717) 632-1291

#### **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

#### **SECTION 2: Hazard(s) identification**

#### **GHS classification:**

Serious eye damage, category 1 Skin corrosion, category 1A

#### Label elements

#### **Hazard pictograms:**



Signal word: Danger

#### **Hazard statements:**

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

### **Precautionary statements:**

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

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

P264 Wash skin thoroughly after handling.

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

P321 Sp lemental first aid instructions on this label).

P363 W Iothing before reuse.

P304+P If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for

breathin. Immediately call a poison center or doctor/physician.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.24.2017 Page 2 of 8

### Sodium Hydroxide, 12.0N

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.

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: 1310-73-2	Sodium hydroxide	<50
CAS number: 7732-18-5	Water	>50

Additional Information: None

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

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

#### **General notes:**

Not determined or not applicable.

#### After inhalation:

Move exposed individual to fresh air

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After skin contact:

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

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

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After swallowing:

Immediately call a POISON CONTROL CENTER or seek medical attention

Do not induce vomiting

Rinse mouth and then drink plenty of water

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

### Acute symptoms and effects:

Not determined or not applicable.

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

Not determined or not applicable.

### Immediate medical attention and special treatment

### Specific treatment:

Not determined or not applicable.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.24.2017 Page 3 of 8

### Sodium Hydroxide, 12.0N

#### Notes for the doctor:

Not determined or not applicable.

#### **SECTION 5: Firefighting 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

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:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.24.2017 Page 4 of 8

### Sodium Hydroxide, 12.0N

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Sodium hydroxide	1310-73-2	ACGIH TLV C 2.0 mg/m <sup>3</sup>
United States (OSHA)	Sodium hydroxide	1310-73-2	OSHA PEL TWA 2.0 mg/m³
NIOSH	Sodium hydroxide	1310-73-2	NIOSH REL C 2.0 mg/m <sup>3</sup>
	Sodium hydroxide	1310-73-2	NIOSH IDLH 10.0 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.

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:

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	Clear, colorless liquid
Odor	Odorless
Odor threshold	Not available
рН	Alkaline
Melting point/freezing point	Approx. 0°C
Initial boiling point/range	Approx. 100°C
Flash point (closed cup)	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	14 mmHg at 20°C
Vapor density	>1
Density	Not available
Relative density	Approx. 1

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.24.2017 Page 5 of 8

### Sodium Hydroxide, 12.0N

Solubilities	Not determined or not available.	
Partition coefficient (n-octanol/water)	Not available	
Auto/Self-ignition temperature	Not available	
Decomposition temperature	Not available	
Dynamic viscosity	Not available	
Kinematic viscosity	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:

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

Product data: No data available.

Substance data: No data available.

#### Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

Substance data:

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

#### Serious eye damage/irritation

**Assessment:** Causes serious eye damage

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.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.24.2017 Page 6 of 8

### Sodium Hydroxide, 12.0N

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

**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

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.24.2017 Page 7 of 8

# Sodium Hydroxide, 12.0N

# **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**

#### United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN1824	
UN proper shipping name	Sodium Hydroxide Solution	
UN transport hazard class(es)	8	
Packing group	II	
<b>Environmental hazards</b>	None	
Special precautions for user	None	

#### International Maritime Dangerous Goods (IMDG)

UN number	UN1824	
UN proper shipping name	Sodium Hydroxide Solution	
UN transport hazard class(es)	8	
Packing group	II .	
Environmental hazards	None	
Special precautions for user	None	

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

UN number	UN1824	
UN proper shipping name	Sodium Hydroxide Solution	
UN transport hazard class(es)	8 CORROSHU	
Packing group	II	
Environmental hazards	None	
Special precautions for user	None	

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code			
Bulk Name None			
Ship type None			
Pollution category None			

# SECTION 15: Regulatory information

### **United States regulations**

**Inventory listing (TSCA):** 

7732-18-5	Water	Listed
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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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# Sodium Hydroxide, 12.0N

1310-73-2	Sodium hydroxide	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals: Not determined.

#### **CERCLA:**

1310-73-2	Sodium hydroxide	Listed	1000
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RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

#### Massachusetts Right to Know:

1310-73-2	Sodium hydroxide	Listed
7732-18-5		Not Listed

### New Jersey Right to Know:

1310-73-2	Sodium hydroxide	Listed
7732-18-5	Water	Not
		Listed

# New York Right to Know:

1310-73-2	Sodium hydroxide	Listed
7732-18-5	Water	Not
		Listed

#### Pennsylvania Right to Know:

1310-73-2	Sodium hydroxide	Listed
7732-18-5		Not Listed

California Proposition 65: 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: 04.24.2017

**End of Safety Data Sheet** 

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# **Safety Data Sheet**

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.22.2018 Page 1 of 8

### **Sodium Phosphate Dibasic**

#### **SECTION 1: Identification**

**Product identifier** 

Product name: Sodium Phosphate Dibasic

Product code: KEMSP1005-J

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: Supplier:

AquaPhoenix Scientific AquaPhoenix Scientific Inc.

860 Gitts Run Road 860 Gitts Run Road

Hanover PA 17331 PA 17331 (717) 632-1291 (717) 632-1291

#### **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

### SECTION 2: Hazard(s) identification

#### **GHS classification:**

Combustible dust Eye irritation, category 2A Skin irritation, category 2

#### **Label elements**

# Hazard pictograms:



Signal word: Warning

#### Hazard statements:

H900 May form combustible dust concentrations in air

H319 Causes serious eye irritation

H315 Causes skin irritation

# **Precautionary statements:**

P264 Wash skin thoroughly after handling

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if

present . Continue rinsing

P321 Sp lemental first aid instructions on this label).

P362 Ta lothing and wash before reuse

P302+P If on skin: Wash with soap and water

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### **Sodium Phosphate Dibasic**

P332+P313 If skin irritation occurs: Get medical advice/attention

Hazards not otherwise classified: None

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

Identification	Name	Weight %
CAS number: 7558-79-4	Sodium Phosphate, Dibasic	100

**Additional Information: None** 

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

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

#### General notes:

Not determined or not applicable.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

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

If symptoms develop or persist, seek medical attention

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

Seek medical attention if irritation persists or if concerned

### After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

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

#### Acute symptoms and effects:

Not determined or not applicable.

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

Not determined or not applicable.

#### Immediate medical attention and special treatment

#### **Specific treatment:**

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

#### SECTION 5: Firefighting measures

#### **Extinguishing media**

#### Suitable extinguishing media:

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

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### **Sodium Phosphate Dibasic**

#### Unsuitable extinguishing media:

Not determined or not applicable.

### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

High concentrations of dust may lead to combustible mixtures with air

#### Special protective equipment for firefighters:

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

#### **Special precautions:**

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and 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

Wear dust mask or respirator

Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration

#### **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

Wear dust mask or respirator

Prevent generation of combustible dust in air mixtures

Sweep or scoop up solid material while minimizing dust generation

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:

Use only with adequate ventilation.

Avoid breathing dust.

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

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.

Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Prevent generation of combustible dust in air mixtures.

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

Keep container tightly sealed.

Keep container dry.

Store in a cool, well-ventilated area.

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

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.22.2018 Page 4 of 8

### **Sodium Phosphate Dibasic**

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:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

### **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. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen- deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

# 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.

Wear appropriate clothing to prevent any possibility of skin contact.

#### Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

# General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

#### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Solid
Odor	Odorless
Odor threshold	Not determined
рН	Not determined
Melting point/freezing point	>240 °C
Initial boiling point/range	Not determined
Flash point (closed cup)	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper flammability/explosive limit	Not determined

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### Sodium Phosphate Dibasic

Lower flammability/explosive limit	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Density	Not determined
Relative density	Not determined
Solubilities	Soluble
Partition coefficient (n-octanol/water)	Not determined
Auto/Self-ignition temperature	Not determined
Decomposition temperature	Not determined
Dynamic viscosity	Not determined
Kinematic viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	Not determined

#### 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:

None under normal conditions of use and storage.

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

Prevent generation of combustible dust in air mixtures.

#### Incompatible materials:

None known.

### Hazardous decomposition products:

None known.

### **SECTION 11: Toxicological information**

### **Acute toxicity**

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

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

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

**Substance data:** 

Name	Result
Sodium Phosphate, Dibasic	Causes skin irritation

### Serious eye damage/irritation

**Assessment:** Causes serious eye irritation

Product data: No data available.

Substance data:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### **Sodium Phosphate Dibasic**

Name	Result
Sodium Phosphate, Dibasic	Causes serious eye irritation

#### 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

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

Persistence and degradability

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

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### Sodium Phosphate Dibasic

#### **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

### **SECTION 14: Transport information**

#### United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
<b>Environmental hazards</b>	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**

#### **United States regulations**

**Inventory listing (TSCA):** 

7558-79-4	Sodium Phosphate, Dibasic	Listed
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Significant New Use Rule (TSCA Section 5): Not determined.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.22.2018 Page 8 of 8

### **Sodium Phosphate Dibasic**

Export notification under TSCA Section 12(b): Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
Yes	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

#### SARA Section 313 toxic chemicals:

7558-79-4	Sodium Phosphate, Dibasic	Not
		Listed

#### **CERCLA:**

7558-79-4	Sodium Phosphate, Dibasic	Listed	5000

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

7558-79-4	Sodium Phosphate, Dibasic	Listed
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New Jersey Right to Know:

7558-79-4	Sodium Phosphate, Dibasic	Listed
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New York Right to Know:

7558-79-4	Sodium Phosphate, Dibasic	Listed
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Pennsylvania Right to Know:

7558-79-4	Sodium Phosphate, Dibasic	Listed
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California Proposition 65: Not determined.

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

# **Abbreviations and Acronyms: None**

### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 2-0-0 **HMIS:** 2-0-0

Initial preparation date: 02.22.2018

**End of Safety Data Sheet** 

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### **Sodium Phosphate, Monobasic**

#### **SECTION 1: Identification**

**Product identifier** 

Product name: Sodium Phosphate, Monobasic

Product code: KEMSP1020-E

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: Supplier:

AquaPhoenix Scientific AquaPhoenix Scientific Inc.

860 Gitts Run Road 860 Gitts Run Road

Hanover PA 17331 PA 17331 (717) 632-1291 (717) 632-1291

#### **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

# SECTION 2: Hazard(s) identification

#### **GHS classification:**

Combustible dust

**Label elements** 

Hazard pictograms: None

**Signal word:** Warning **Hazard statements:** 

H900 May form combustible dust concentrations in air

Precautionary statements: None

Hazards not otherwise classified: None

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

Identification	Name	
CAS number: 7558-80-7	Sodium phosphate monobasic, anhydrous	100

**Additional Information:** None

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

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

#### **General notes:**

Not determined or not applicable.

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Initial preparation date: 02.22.2018 Page 2 of 8

### **Sodium Phosphate, Monobasic**

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

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

#### After eye contact:

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

If symptoms develop or persist, seek medical attention

#### After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

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

### Acute symptoms and effects:

Not determined or not applicable.

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

Not determined or not applicable.

#### Immediate medical attention and special treatment

#### **Specific treatment:**

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

### SECTION 5: Firefighting 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

High concentrations of dust may lead to combustible mixtures with air

# Special protective equipment for firefighters:

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

#### Special precautions:

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and 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

Wear dust mask or respirator

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.22.2018 Page 3 of 8

#### Sodium Phosphate, Monobasic

Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration

#### **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

Wear dust mask or respirator

Prevent generation of combustible dust in air mixtures

Sweep or scoop up solid material while minimizing dust generation

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:**

Use only with adequate ventilation.

Avoid breathing dust.

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

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.

Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Prevent generation of combustible dust in air mixtures.

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

Keep container tightly sealed.

Keep container dry.

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:

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:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

#### 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. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen- deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### Sodium Phosphate, Monobasic

leakage from the equipment).

### 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.

Wear appropriate clothing to prevent any possibility of skin contact.

#### **Respiratory protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

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

### Information on basic physical and chemical properties

Appearance	White Solid
Odor	Odorless
Odor threshold	Not determined
рН	4.1 - 4.5: 5% solution
Melting point/freezing point	100°C
Initial boiling point/range	203.9°C
Flash point (closed cup)	Not determined
Evaporation rate	Negligible
Flammability (solid, gas)	Not determined
Upper flammability/explosive limit	Not determined
Lower flammability/explosive limit	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Density	Not determined
Relative density	approximately 2.0
Solubilities	Water Soluble
Partition coefficient (n-octanol/water)	Not determined
Auto/Self-ignition temperature	Not determined
<b>Decomposition temperature</b>	437 °F
Dynamic viscosity	Not determined
Kinematic viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	Not determined

# Other information

Other physical properties:	Hygroscopic (absorbs moisture from the air)
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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### Sodium Phosphate, Monobasic

#### 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:

None under normal conditions of use and storage.

#### Conditions to avoid:

Prevent generation of combustible dust in air mixtures.

### Incompatible materials:

None known.

#### **Hazardous decomposition products:**

None known.

# SECTION 11: Toxicological information

# **Acute toxicity**

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

Product data: No data available.

Substance data: No data available.

#### Skin corrosion/irritation

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

Product data: No data available.

Substance data: No data available.

#### 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)

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#### Sodium Phosphate, Monobasic

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
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

# **SECTION 14: Transport information**

# United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None

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Sodium Phosphate, Monobasic
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Special precautions for user	None
process process and	

### **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

#### **United States regulations**

# **Inventory listing (TSCA):**

7558-80-7	Sodium phosphate monobasic, anhydrous	Listed
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Significant New Use Rule (TSCA Section 5): Not determined.

**Export notification under TSCA Section 12(b):** Not determined.

### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

#### SARA Section 313 toxic chemicals:

7558-80-7	Sodium phosphate monobasic, anhydrous	Not
		Listed

**CERCLA:** Not determined. **RCRA:** Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

### Massachusetts Right to Know:

7558-80-7	Sodium phosphate monobasic, anhydrous	Not
		Listed

### **New Jersey Right to Know:**

7558-80-7	Sodium phosphate monobasic, anhydrous	
		Listed

### **New York Right to Know:**

7558-80-7	Sodium phosphate monobasic, anhydrous	Not
		Listed

# Pennsylvania Right to Know:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### Sodium Phosphate, Monobasic

7558-80-7 Sodium phosphate monobasic, anhydrous		Not
		Listed

California Proposition 65: None of the ingredients are listed.

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

# **Abbreviations and Acronyms: None**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 2-0-0 **HMIS:** 2-0-0

Disclaimer:

**Initial preparation date:** 02.22.2018

**End of Safety Data Sheet**