**Effective date**: 01.12.2015

# Hydrochloric Acid, 1.0N

# SECTION 1: Identification of the substance/mixture and of the supplier

Product name:

Hydrochloric Acid, 1.0N

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number:

HA6141-D

Recommended uses of the product and restrictions on use: Laboratory chemicals

Manufacturer Details:

AquaPhoenix Scientific 9 Barnhart Drive, Hanover, PA 17331 (717) 632-1291

# **Supplier Details:**

AquaPhoenix Scientific, Inc 9 Barnhart Drive, Hanover, PA 17331 (717) 632-1291

# **Emergency telephone number:**

Emergency Telephone No.: 800-255-3924

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture:



# Corrosive

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



#### Irritant

Specific target organ toxicity following single exposure, category 3

Corr Metals. 1. Skin Corr. 1B. Eye Damage. 1. Stot SE. 3.

Signal word: Danger

#### Hazard statements:

May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Causes serious eye damage.

# **Precautionary statements:**

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep only in original container.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

**Effective date:** 01.12.2015

# Hydrochloric Acid, 1.0N

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

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

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Store in a well ventilated place. Keep container tightly closed.

Store locked up.

Store in a corrosive resistant container with a resistant inner liner.

Dispose of contents/container.

Other Non-GHS Classification: None

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

# Ingredients:

Ingredients:					
CAS 7647-01-0	Hydrochloric Acid, ACS	9.75 %			
CAS 7732-18-5	Deionized Water	90.25 %			
		Percentages are by weight			

# SECTION 4: First aid measures

#### Description of first aid measures

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Consult a physician.

#### After skin contact:

Rinse hands with water for 20 minutes. Enter emergency shower rinsing while removing contaminated clothing and shoes. Immediately seek medical attention.

#### After eye contact:

Protect unexposed eye. Remove contact lenses, if present and easy to do, and continue rinsing. Continue rinsing eyes during transport to hospital. Immediately seek medical attention.

#### After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

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

Headache. Nausea. Shortness of breath. Irritation/burns, all routes of exposure. Spasm, inflammation and edema of the larynx. Inflammation and edema of the bronchi, pneumonitis, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. ( Hydrochloric acid ).

# Indication of any immediate medical attention and special treatment needed:

**Effective date**: 01.12.2015

# Hydrochloric Acid, 1.0N

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

# **SECTION 5: Firefighting measures**

# Extinguishing media

# Suitable extinguishing agents:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

# Unsuitable extinguishing agents: None

# Special hazards arising from the substance or mixture:

Hydrogen chloride gas may be released.

# Advice for firefighters:

# **Protective equipment:**

Wear protective eyeware, gloves, and clothing. Poisonous gas may be produced in fire. Refer to Section 8.

# Additional information (precautions):

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing. Dust deposits should not be allowed to accumulate on surfaces.

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

# Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

#### **Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

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

Wear protective eyeware, gloves, and clothing. Follow advice and precautions. If necessary use trained response staff or contractor. Absorb with suitable absorbent material such as sand or earth and containerize for disposal. Refer to Section 13. Sweep up and containerize for disposal. Avoid generating dust. Refer to Section 8. Refer to Section 5.

#### Reference to other sections: None

# SECTION 7: Handling and storage

# **Precautions for safe handling:**

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Wash hands after handling. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Wear protective equipment. See Section 8. Refer to Section 13.

# Conditions for safe storage, including any incompatibilities:

Store in a cool location. Store with like hazards. Keep away from open flames, hot surfaces, and sources of ignition. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly closed. Store away from incompatible materials.

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









**Effective date**: 01.12.2015

# Hydrochloric Acid, 1.0N

**Control parameters:** 7647-01-0, Hydrochloric Acid, C 2 ppm USA. ACGIH.

7647-01-0, Hydrochloric Acid, C 5 ppm 7 mg/m3 USA. NIOSH. 7647-01-0, Hydrochloric Acid, C 5 ppm 7 mg/m3 USA. OSHA.

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use or handling. Use under fume hood designed for hazardous chemicals with an average face velocity of 100 feet per minute or greater. Ensure that evacuation/ventilation systems are designed to prevent the escape of dust/mist/aerosols into the work area.

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment

shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved

breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing. Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration

and amount of the dangerous substance at the specific workplace.

**Eye protection:** Wear equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU). Wear tightly fitting safety goggles and a faceshield (8-inch minimum).

**General hygienic measures:** Wash hands before breaks and at the end of work. Perform routine

housekeeping to prevent dust generation. Avoid contact with skin, eyes,

and clothing. Before wearing wash contaminated clothing.

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

Appearance (physical state, color):	Clear colorless liquid	Explosion limit lower: Explosion limit upper:	Not determined Not determined
Odor:	Pungent	Vapor pressure at 20°C:	4.0 atm @ 17.8C
Odor threshold:	Not determined	Vapor density:	Not determined
pH-value:	1.1 (0.1N)	Relative density:	Not determined
Melting/Freezing point:	Approx. 0 °C	Solubilities:	Soluble in water.
Boiling point/Boiling range:	Approx. 100 °C	Partition coefficient (noctanol/water):	Not determined
Flash point (closed cup):	Not determined	Auto/Self-ignition temperature:	Not determined
Evaporation rate:	> 1	Decomposition temperature:	Not determined
Flammability (solid, gaseous):	Not determined	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined
Density at 20°C:	Not determined		

# **SECTION 10: Stability and reactivity**

# Reactivity:

Nonreactive under normal conditions.

# Chemical stability:

**Effective date**: 01.12.2015

# Hydrochloric Acid, 1.0N

Stable under normal conditions.

Possible hazardous reactions: None

Conditions to avoid:

Incompatible materials. Excess heat.

# Incompatible materials:

Most metals, alkalis, cyanides, sulfides, sulfites, metal oxides, formaldehydes.

### Hazardous decomposition products:

Fumes of hydrogen chloride and hydrogen in contact with metals. Chloride gas from oxidizers.

# **SECTION 11: Toxicological information**

**Acute Toxicity**: No additional information. **Chronic Toxicity**: No additional information.

Skin corrosion/irritation:

Skin - rabbit Result: Causes burns. 7647-01-0.

#### Serious eye damage/irritation:

Eyes - rabbit (Hydrochloric acid) Result: Corrosive to eyes 7647-01-0.

**Respiratory or skin sensitization**: No additional information.

**Carcinogenicity**: No additional information.

**Germ cell mutagenicity**: No additional information. **Reproductive Toxicity**: No additional information.

STOT-single and repeated exposure:

7647-01-0: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. ( Hydrochloric acid )

**Additional toxicological information:** No additional information.

# **SECTION 12: Ecological information**

#### **Ecotoxicity:**

Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid), 7647-01-0.

**Persistence and degradability**: No additional information. **Bioaccumulative potential**: No additional information.

Mobility in soil: No additional information.

Other adverse effects: No additional information.

# **SECTION 13: Disposal considerations**

# Waste disposal recommendations:

Treat the solid residue as normal refuse. Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification. Cover

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 01.12.2015

# Hydrochloric Acid, 1.0N

spill with soda ash or calcium carbonate. Mix and add water to form slurry. Decant to drain.

# **SECTION 14: Transport information**

**US DOT** 

**UN Number:** 

ADR, ADN, DOT, IMDG, IATA

1789

**Limited Quantity Exception:** 

None

**Bulk:** 

RQ (if applicable): None

Proper shipping Name: Hydrochloric acid.

Hazard Class: 8

Packing Group: II.

Marine Pollutant (if applicable): No

additional information. **Comments:** None

Non Bulk:

RQ (if applicable): None

Proper shipping Name: Hydrochloric acid.

Hazard Class: 8
Packing Group: II.

Marine Pollutant (if applicable): No

additional information. **Comments:** None





# **SECTION 15: Regulatory information**

#### United States (USA)

# SARA Section 311/312 (Specific toxic chemical listings):

Acute

# SARA Section 313 (Specific toxic chemical listings):

7647-01-0 Hydrochloric acid.

7647-01-0 Hydrogen Chloride.

# RCRA (hazardous waste code):

None of the ingredients are listed.

# TSCA (Toxic Substances Control Act):

All ingredients are listed.

# CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

7647-01-0 Hydrochloric acid 5000 lb.

# Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

# Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

# Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

# Chemicals known to cause developmental toxicity:

**Effective date:** 01.12.2015

# Hydrochloric Acid, 1.0N

None of the ingredients are listed.

#### Canada

### Canadian Domestic Substances List (DSL):

All ingredients are listed.

# **SECTION 16: Other information**

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. Note. 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**: 1-0-0 **HMIS**: 1-0-0

GHS Full Text Phrases: None

# **Abbreviations and Acronyms:**

IMDG International Maritime Code for Dangerous Goods.

PNEC. Predicted No-Effect Concentration (REACH).

CFR Code of Federal Regulations (USA).

SARA Superfund Amendments and Reauthorization Act (USA).

RCRA. Resource Conservation and Recovery Act (USA).

TSCA. Toxic Substances Control Act (USA).

NPRI National Pollutant Release Inventory (Canada).

DOT US Department of Transportation.

IATA International Air Transport Association.

GHS Globally Harmonized System of Classification and Labelling of Chemicals.

ACGIH American Conference of Governmental Industrial Hygienists.

CAS Chemical Abstracts Service (division of the American Chemical Society).

NFPA National Fire Protection Association (USA).

HMIS Hazardous Materials Identification System (USA).

WHMIS Workplace Hazardous Materials Information System (Canada).

DNEL Derived No-Effect Level (REACH).

**Effective date**: 10.24.2014

### Magnesium Oxide

# SECTION 1: Identification of the substance/mixture and of the supplier

Product name:

Magnesium Oxide

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number:

MG2250-5G

Recommended uses of the product and restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific 9 Barnhart Drive, Hanover, PA 17331 (717) 632-1291

# **Supplier Details:**

AquaPhoenix Scientific, Inc. 9 Barnhart Drive, Hanover, PA 17331 (717) 632-1291

# **Emergency telephone number:**

Emergency Telephone No.: 800-255-3924

#### **SECTION 2: Hazards identification**

Classification of the substance or mixture: Not classified for physical or health hazards under GHS.

Signal word: None

Hazard statements: None

# **Precautionary statements:**

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

Other Non-GHS Classification: None

# SECTION 3: Composition/information on ingredients

# Ingredients:

Ingredients:					
CAS 1309-48-4	Magnesium Oxide	>98 %			
		Percentages are by weight			

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

### Description of first aid measures

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air, Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

**Effective date**: 10.24.2014

# Magnesium Oxide

#### After skin contact:

Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

### After eye contact:

Protect unexposed eye. 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.

#### After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists. Never give anything by mouth to an unconscious person.

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

Irritation. Nausea. Headache. Shortness of breath.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

# **SECTION 5: Firefighting measures**

# Extinguishing media

### Suitable extinguishing agents:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

#### Unsuitable extinguishing agents: None

### Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Magnesium oxide.

# Advice for firefighters:

# **Protective equipment:**

Use NIOSH-approved respiratory protection/breathing apparatus.

# Additional information (precautions):

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use spark-proof tools and explosion-proof equipment. 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. 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:

Wear protective equipment. Ensure that air-handling systems are operational. Ensure adequate ventilation.

### **Environmental precautions:**

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Should not be released into environment.

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

Keep in suitable closed containers for disposal. Wear protective eyeware, gloves, and clothing. Always obey local regulations. Refer to Section 8. 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. Avoid dispersal of dust in the air. Collect solids in powder form using vacuum with HEPA filter. Evacuate personnel to safe areas.

#### Reference to other sections: None

**Effective date**: 10.24.2014

### Magnesium Oxide

### SECTION 7: Handling and storage

# Precautions for safe handling:

Minimize dust generation and accumulation. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes, skin, and clothing.

# Conditions for safe storage, including any incompatibilities:

Store away from incompatible materials. Protect from freezing and physical damage. Keep away from food and beverages. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store in cool, dry conditions in well sealed containers. Store with like hazards.

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





Control parameters: ... OSHA PEL TWA (Total Dust) 15 mg/m3 (50 mppcf\*). , , ACGIH TLV TWA (inhalable particles) 10 mg/m3.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) 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). Use under a fume hood.

Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of skin: Select glove material impermeable and resistant to the substance. Select

> glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

Eye protection: Wear equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety glasses or goggles are appropriate eye protection.

**General hygienic measures:** Perform routine housekeeping. Wash hands before breaks and at the end

of work. Avoid contact with skin, eyes, and clothing. Before wearing wash

contaminated clothing.

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

**Effective date**: 10.24.2014

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Appearance (physical state, color):		Explosion limit lower: Explosion limit upper:	Not determined Not determined
Odor:	Odorless	Vapor pressure at 20°C:	Not determined
Odor threshold:	Not determined	Vapor density:	Not determined
pH-value:	Not determined	Relative density:	3.580 g/cm3
Melting/Freezing point:	2800C	Solubilities:	insoluble; Molecular Weight 40.30.
Boiling point/Boiling range:	3582C	Partition coefficient (noctanol/water):	Not determined
Flash point (closed cup):	Not determined	Auto/Self-ignition temperature:	Not determined
Evaporation rate:	Not determined	Decomposition temperature:	Not determined
Flammability (solid, gaseous):	Not determined	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined
Density at 20°C:	Not determined	New York Control of the Control of t	-

# SECTION 10: Stability and reactivity

# Reactivity:

Nonreactive under normal conditions.

### Chemical stability:

Stable under normal conditions.

### Possible hazardous reactions:

None under normal processing.

# Conditions to avoid:

Incompatible Materials.

# Incompatible materials:

Strong acids. Strong bases. Oxidizing agents. **Hazardous decomposition products:** None

# **SECTION 11: Toxicological information**

Acute Toxicity: None

Chronic Toxicity: No additional information.

Skin corrosion/irritation: No additional information.

Serious eye damage/irritation: No additional information.

Respiratory or skin sensitization: No additional information.

Carcinogenicity: No additional information.

**Germ cell mutagenicity**: No additional information. **Reproductive Toxicity**: No additional information.

**STOT-single and repeated exposure**: No additional information. **Additional toxicological information**: No additional information.

# SECTION 12: Ecological information

Ecotoxicity: No additional information.

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 10.24.2014

# Magnesium Oxide

**Persistence and degradability**: No additional information. **Bioaccumulative potential**: No additional information.

Mobility in soil: No additional information.

Other adverse effects: No additional information.

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

# Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

# **SECTION 14: Transport information**

#### **US DOT**

**UN Number:** 

ADR, ADN, DOT, IMDG, IATA

Not Regulated.

**Limited Quantity Exception:** 

None

**Bulk:** 

RQ (if applicable): None

Proper shipping Name: Not Regulated.

Hazard Class: None

Packing Group: Not Regulated.

Marine Pollutant (if applicable): No

additional information. **Comments:** None

Non Bulk:

RQ (if applicable): None

Proper shipping Name: Not Regulated.

Hazard Class: None

Packing Group: Not Regulated.

Marine Pollutant (if applicable): No

additional information. **Comments:** None

# SECTION 15: Regulatory information

#### United States (USA)

# SARA Section 311/312 (Specific toxic chemical listings):

None of the ingredients are listed.

### SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

#### RCRA (hazardous waste code):

None of the ingredients are listed.

#### TSCA (Toxic Substances Control Act):

All ingredients are listed.

### CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

**Effective date**: 10.24.2014

#### Magnesium Oxide

### Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

# Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

#### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Canada

# Canadian Domestic Substances List (DSL):

All ingredients are listed.

# **SECTION 16: Other information**

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. Note. 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**: 0-0-0 **HMIS**: 0-0-0

GHS Full Text Phrases: None

#### **Abbreviations and Acronyms:**

IMDG International Maritime Code for Dangerous Goods.

IATA International Air Transport Association.

GHS Globally Harmonized System of Classification and Labelling of Chemicals.

ACGIH American Conference of Governmental Industrial Hygienists.

CAS Chemical Abstracts Service (division of the American Chemical Society).

NFPA National Fire Protection Association (USA).

HMIS Hazardous Materials Identification System (USA).

WHMIS Workplace Hazardous Materials Information System (Canada).

DNEL Derived No-Effect Level (REACH).

PNEC. Predicted No-Effect Concentration (REACH).

CFR Code of Federal Regulations (USA).

SARA Superfund Amendments and Reauthorization Act (USA).

RCRA. Resource Conservation and Recovery Act (USA).

TSCA. Toxic Substances Control Act (USA).

NPRI National Pollutant Release Inventory (Canada).

DOT US Department of Transportation.

**Effective date: 02.11.2015** 

# Magnesium Ribbon

# SECTION 1: Identification of the substance/mixture and of the supplier

**Product name:** 

Magnesium Ribbon

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number:

KEMMG2510-2G

Recommended uses of the product and restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific 9 Barnhart Drive, Hanover, PA 17331 (717) 632-1291

# **Supplier Details:**

AquaPhoenix Scientific Inc. 9 Barnhart Drive, Hanover PA 17331 (717) 632-1291

# **Emergency telephone number:**

Emergency Telephone No.: 800-255-3924

### SECTION 2: Hazards identification

#### Classification of the substance or mixture:



# Flammable

Flammable solids, category 1 Flammable gases, category 1

Pyrophoric solids. 1.

Emits Flamm. gas with water contact.

Signal word: Danger

#### Hazard statements:

Catches fire spontaneously if exposed to air.

In contact with water releases flammable gases which may ignite spontaneously.

# **Precautionary statements:**

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Do not allow contact with air.

Keep away from any possible contact with water, because of violent reaction and possible flash fire.

Handle under inert gas. Protect from moisture.

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

Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

In case of fire, use agents recommended in section 5 for extinction.

Store in a dry place. Store in a closed container.

Dispose of contents and container as instructed in Section 13.

Other Non-GHS Classification: None

**Effective date**: 02.11.2015

Magnesium Ribbon
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# SECTION 3: Composition/information on ingredients

# Ingredients:

Ingredients:		
CAS 7439-95-4	Magnesium	>90 %
		Percentages are by weight

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

# Description of first aid measures

#### After inhalation:

Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position. Seek medical assistance if cough or other symptoms appear.

### After skin contact:

Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

# After eye contact:

Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses, if present and easy to do, and continue rinsing. Seek medical attention if irritation persists or concerned.

### After swallowing:

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if irritation, discomfort, or vomiting persists.

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

Irritation. Shortness of breath. Headache. Nausea. Dizziness.

### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

# SECTION 5: Firefighting measures

# Extinguishing media

# Suitable extinguishing agents:

Dry powder.

# Unsuitable extinguishing agents:

Water spray. Carbon dioxide extinguishers.

# Special hazards arising from the substance or mixture:

Combustible dust formation is a risk. Thermal decomposition can lead to release of irritating gases and vapors. Water cannot extinguish magnesium fires. The hydrogen gas produced only intensifies the fire.

# Advice for firefighters:

#### Protective equipment:

Wear protective eyeware, gloves, and clothing. Refer to Section 8.

# Additional information (precautions):

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

**Effective date: 02.11.2015** 

# Magnesium Ribbon

# **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation. Ensure that air-handling systems are operational.

#### **Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

# Methods and material for containment and cleaning up:

Sweep up and shovel. Contain spillage. Collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations. Wear protective eyeware, gloves, and clothing. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Refer to Section 8.

# Reference to other sections: None

# SECTION 7: Handling and storage

#### Precautions for safe handling:

Combustible dust formation is a risk. Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances. Refer to Section 13.

# Conditions for safe storage, including any incompatibilities:

Store contents under inert gas. Air and moisture sensitive. Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

# SECTION 8: Exposure controls/personal protection







**Control parameters:** No applicable occupational exposure limits.

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 Functional Limits OFLs) indicated above.

Exposure Limits-OELs) indicated above.

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment

shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved

breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

**Eye protection:** Face shield and safety glasses are appropriate eye protection. Wear

equipment for eye protection tested and approved under appropriate

government standards such as NIOSH (US) or EN 166(EU).

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 02.11.2015

#### Magnesium Ribbon

General hygienic measures:

Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Before re-wearing wash contaminated clothing.

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

Appearance (physical state, color):	Silver White Solid	Explosion limit lower: Explosion limit upper:	Not determined Not determined			
Odor:	Not determined	Vapor pressure at 20°C:	1 hPa at 621 °C			
Odor threshold:	Not determined	Vapor density:	Not determined			
pH-value:	Not determined	Relative density:	1.74 g/cm3 at 25 °C			
Melting/Freezing point:	650 °C	Solubilities:	Insoluble in water			
Boiling point/Boiling range:	1107 °C	Partition coefficient (noctanol/water):	Not determined			
Flash point (closed cup):	Not determined	Auto/Self-ignition temperature:	Not determined			
Evaporation rate:	Not determined	Decomposition temperature:	Not determined			
Flammability (solid, gaseous):	Flammable	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined			
Density at 20°C:	Not determined					
Additional property	Hygroscopic (absorbs moisture from the air).					

# SECTION 10: Stability and reactivity

# Reactivity:

Reacts violently with water.

# Chemical stability:

Stable under normal conditions.

# Possible hazardous reactions:

Emits flammable gas when in contact with water.

# Conditions to avoid:

Air and moisture sensitive. Incompatible materials.

# Incompatible materials:

Strong oxidizing agents, acids, Acid chlorides, Halogens.

# **Hazardous decomposition products:**

Magnesium oxide.

# **SECTION 11: Toxicological information**

Acute Toxicity: None

Chronic Toxicity: No additional information.

Skin corrosion/irritation: No additional information.

Serious eye damage/irritation: No additional information.

Respiratory or skin sensitization: No additional information.

Carcinogenicity: No additional information.

Germ cell mutagenicity: No additional information.

**Effective date**: 02.11.2015

#### Magnesium Ribbon

**Reproductive Toxicity**: No additional information.

**STOT-single and repeated exposure**: No additional information. **Additional toxicological information**: No additional information.

# **SECTION 12: Ecological information**

Ecotoxicity: No additional information.

Persistence and degradability: No additional information. Bioaccumulative potential: No additional information.

Mobility in soil: No additional information.

Other adverse effects: No additional information.

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

# Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

# **SECTION 14: Transport information**

# **US DOT**

**UN Number:** 

ADR, ADN, DOT, IMDG, IATA

1869

**Limited Quantity Exception:** 

None

**Bulk:** 

RQ (if applicable): None

Proper shipping Name: Magnesium.

Hazard Class: 4
Packing Group: III.

Marine Pollutant (if applicable): No

additional information. **Comments:** None

Non Bulk:

RQ (if applicable): None

Proper shipping Name: Magnesium.

Hazard Class: 4
Packing Group: III.

Marine Pollutant (if applicable): No

additional information. **Comments:** None





# **SECTION 15: Regulatory information**

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 02.11.2015

### Magnesium Ribbon

# SARA Section 311/312 (Specific toxic chemical listings):

Reactive, Chronic, Fire

# SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

#### RCRA (hazardous waste code):

None of the ingredients are listed.

# TSCA (Toxic Substances Control Act):

All ingredients are listed.

# CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

7439-95-4 Magnesium 10 lbs.

#### Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

# Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

# Canada

# Canadian Domestic Substances List (DSL):

All ingredients are listed.

# **SECTION 16: Other information**

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. Note. 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: 1-0-1 HMIS: 1-0-1

GHS Full Text Phrases: None

Abbreviations and Acronyms: None