according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 01.26.2015 Page 1 of 7

Potassium Hydroxide, 0.1M

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

Product name : Potassium Hydroxide, 0.1M

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25863

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific 9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education 15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

SECTION 2: Hazards identification

Classification of the substance or mixture:



Corrosive

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

Corr. Metals 1 Skin corr. 1A Eye damage 1

Signal word: Danger

Hazard statements:

May be corrosive to metals

Causes severe skin burns and 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 container tightly closed

Do not breathe dust/fume/gas/mist/vapours/spray

Wash skin thoroughly after handling

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

Absorb spillage to prevent material damage

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

Wash contaminated clothing before reuse

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

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Effective date: 01.26.2015 Page 2 of 7

Potassium Hydroxide, 0.1M

Continue rinsing Store locked up

Dispose of contents and container as instructed in Section 13

Other Non-GHS Classification:

WHMIS NFPA/HMIS





HMIS RATINGS (0-4)

SECTION 3: Composition/information on ingredients

Ingredients:				
CAS 7732-18-5	Deionized Water	>99.36 %		
CAS 1310-58-3	Potassium Hydroxide	<0.64 %		
		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.

After skin contact: Wash hands and exposed skin with soap and plenty of water. Immediately seek medical

After eye contact: Protect unexposed eye. Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Immediately get medical assistance.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical assistance.

Most important symptoms and effects, both acute and delayed:

Irritation.Headache.Nausea.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 water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 01.26.2015 Page 3 of 7

Potassium Hydroxide, 0.1M

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

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

Additional information (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 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. Refer to Section 8.Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Collect liquid and dilute with water. Neutralize with dilute acid solutions. Decant water to drain with excess water. Absorb with suitable material. Dispose of remaining solid as normal refuse.

Reference to other sections:

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. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances. Do not mix with acids.

Conditions for safe storage, including any incompatibilities:

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. Store as a corrosive.

SECTION 8 : Exposure controls/personal protection





Control Parameters: 1310-58-3 , Potassium hydroxide, C 2 mg/m3 USA. ACGIH (TLV)

1310-58-3, Potassium hydroxide , C 2 mg/m3 USA. NIOSH 1310-58-3, Potassium hydroxide, C 2 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. 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. Use under a chemical fume hood.

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 01.26.2015 Page 4 of 7

Potassium Hydroxide, 0.1M

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. Use under a chemical fume hood.

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

Appearance (physical state,color):	Clear colorless liquid	Explosion limit lower: Explosion limit upper:	Not Determined Not Determined
Odor:	Odorless	Vapor pressure:	Not Determined
Odor threshold:	Not Determined	Vapor density:	>1
pH-value:	Alkaline	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:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid,gaseous):	Not Determined	Viscosity:	a. Kinematic:Not Determined b. Dynamic: Not Determined
Density: Not Determined			

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.Excessive heat.

Incompatible materials:Strong acids, acetone, metals such as aluminum, tin, zinc, and chlorinated hydrocarbons.

Hazardous decomposition products:Oxides of potassium, decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 01.26.2015 Page 5 of 7

Potassium Hydroxide, 0.1M

SECTION 11: Toxicological information

Acute Toxicity:					
Oral:	1310-58-3	LD50 Oral-rat: 273 mg/m3			
Chronic Toxicity: No additional information.					
Corrosion Irritation:					
Dermal:	1310-58-3	Skin - Rabbit Result: Severe skin irritation - 24 h			
Ocular:	1310-58-3	Eyes - Rabbit Result: Corrosive to eyes			
Sensitization:		No additional information.			
Single Target Organ (STOT):		No additional information.			
Numerical Measures:		No additional information.			
Carcinogenicity:		No additional information.			
Mutagenicity:		No additional information.			
Reproductive Toxicity:		No additional information.			

SECTION 12: Ecological information

Ecotoxicity

Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 80 mg/l - 96 h: 1310-58-3

Persistence and degradability: Readily biodegradable Bioaccumulative potential: Not Bioaccumulative.

Mobility in soil: Aqueous solution has high mobility in soil

Other adverse effects:

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. Neutralize with dilute acid solutions.

SECTION 14: Transport information

UN-Number

1814

UN proper shipping name

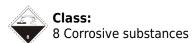
Potassium Hydroxide Solution

Transport hazard class(es)

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 01.26.2015 Page 6 of 7

Potassium Hydroxide, 0.1M



Packing group: III

Environmental hazard:

Transport in bulk:

Special precautions for user:

SECTION 15: Regulatory information

United States (USA)

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

Acute

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

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

1310-58-3 Potassium Hydroxide 1000 lbs

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

1310-58-3 Potassium Hydroxide

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

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 01.26.2015 Page 7 of 7

Potassium Hydroxide, 0.1M

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.

GHS Full Text Phrases:

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 : 01.26.2015 **Last updated** : 03.19.2015