

Effective date : 11.05.2014

## Corn Starch

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

Product name: Corn Starch

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: SBDCR5016-5G

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 Education  
9 Barnhart Drive, Hanover, PA 17331  
(877) 401-1782

Emergency telephone number:

Emergency Telephone No.: (800) 255-3924

## SECTION 2: Hazards identification

Classification of the substance or mixture:

May form combustible dust concentrations in air.

Signal word: Warning

Hazard statements:

None

Precautionary statements:

None

Other Non-GHS Classification: None

## SECTION 3: Composition/information on Ingredients

Ingredients:

Ingredients:

CAS 9005-25-8	Starch, Potato, Reagent Grade	>90 %
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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. Consult a physician.

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Effective date : 11.05.2014

## Corn Starch

After skin contact:

Wash hands and exposed skin with soap and plenty of water. Consult a physician.

After eye contact:

Flush eyes with water as a precaution.

After swallowing:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed:

Irritation. Headache. Shortness of breath. Nausea.

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. Do not inhale gases, fumes, dust, mist, vapor, and aerosols.

Unsuitable extinguishing agents: None

Special hazards arising from the substance or mixture:

Carbon oxides may be released.

Advice for firefighters:

Protective equipment:

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

Additional information (precautions):

Avoid generating dust.

## SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that dust-handling systems (exhaust ducts, dust collectors, vessels, and processing equipment) are designed to prevent the escape of dust into the work area.

Environmental precautions:

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

Methods and material for containment and cleaning up:

Sweep up and containerize for disposal. Avoid generating dust. Always obey local regulations. Sweep up and shovel. Keep in suitable closed containers for disposal. Follow proper disposal methods. Refer to Section 13.

Reference to other sections: None

## SECTION 7: Handling and storage

Precautions for safe handling:

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions refer to Section 2.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, dry, well-ventilated area. Store away from incompatible materials. Refer to Sections 5 and 10.

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Effective date : 11.05.2014

## Corn Starch

## SECTION 8: Exposure controls/personal protection



Control parameters:

9005-25-8, High-polymeric carbohydrate material., 10 mg/m3 USA, ACGIH Threshold Limit Values (TLV).  
9005-25-8, High-polymeric carbohydrate material., 15 mg/m3 USA, Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants.  
9005-25-8, High-polymeric carbohydrate material., 5 mg/m3 USA, Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants.  
9005-25-8, High-polymeric carbohydrate material., 5 mg/m3 USA, NIOSH Recommended Exposure Limits.  
9005-25-8, High-polymeric carbohydrate material., 10 mg/m3 USA, NIOSH Recommended Exposure Limits.

Appropriate engineering controls:

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

Respiratory protection:

Normal ventilation is adequate. 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.

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.

General hygienic measures:

Perform routine housekeeping to prevent dust generation. Do not eat, drink, smoke, or use personal products when handling chemical substances. Wash hands before breaks and immediately after handling the product.

## SECTION 9: Physical and chemical properties

Appearance (physical state, color):	White solid	Explosion limit lower: Explosion limit upper:	Not available Not available
Odor:	Not available	Vapor pressure at 20°C:	Not available
Odor threshold:	Not available	Vapor density:	Not available
pH-value:	Not available	Relative density:	Not available
Melting/freezing point:	Not available	Solubilities:	None
Boiling point/Boiling range:	Not available	Partition coefficient (n-octanol/water):	Not available
Flash point (closed cup):	Not available	Auto/Self-ignition temperature:	Not available

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Effective date : 11.05.2014

## Corn Starch

Evaporation rate:	Not available	Decomposition temperature:	Not available
Flammability (solid, gaseous):	May form combustible dust concentrations in air.	Viscosity:	a. Kinematic: Not available b. Dynamic: Not available
Density at 20°C:	Not available		

## SECTION 10: Stability and reactivity

Reactivity:

None under normal processing.

Chemical stability:

Stable under normal conditions.

Possible hazardous reactions: None

Conditions to avoid:

Dust generation. Incompatible materials.

Incompatible materials:

Strong oxidizing agents.

Hazardous decomposition products: None

## SECTION 11: Toxicological information

Acute Toxicity: No additional information.

Chronic Toxicity: No additional information.

Skin corrosion/irritation:

Skin - Human Result: Mild skin irritation - 3 h 9005-25-8.

Serious eye damage/irritation: No additional information.

Respiratory or skin sensitization: No additional information.

Carcinogenicity:

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.

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:

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**Safety Data Sheet**

Page 5 of 6

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 11.05.2014

**Corn Starch**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. 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) :**

9005-25-8 Not Regulated.: not listed.

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

None of the ingredients are listed.

**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:**

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**Safety Data Sheet**

Page 6 of 6

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 11.05.2014

**Corn Starch**

None of the ingredients are listed.

**Canada****Canadian Domestic Substances List (DSL) :**

9005-25-8 Not Regulated.: not listed.

**SECTION 16: Other information**

This product has been classified in accordance within GHS 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:** 0-0-0**HMS:** 0-0-0**GHS Full Text Phrases:** None**Abbreviations and Acronyms:** None

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Safety Data Sheet  
according to 29CFR1910/1200 and GHS Rev. 3

Page 1 of 7

Effective date : 01.31.2015

Asprin Powder,Gm

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

Product name: Asprin Powder,Gm

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: SBDUK5637-5G


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 Education  
9 Barnhart Drive, Hanover, PA 17331  
(877) 401-1782

Emergency telephone number:  
  
Emergency Telephone No.: (800) 255-3924

SECTION 2: Hazards identification

Classification of the substance or mixture:  
 Irritant  
Acute toxicity (oral, dermal, inhalation), category 4  
Skin Irritation, category 2  
Eye irritation, category 2A  
Specific target organ toxicity following single exposure, category 3  
Acute Oral Tox. 4,  
Skin Irrit. 2,  
Eye Irrit. 2A,  
STOT SE 3, Respiratory system.

Signal word: Warning

Hazard statements:  
Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

Precautionary statements:  
If medical advice is needed have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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Safety Data Sheet  
according to 29CFR1910/1200 and GHS Rev. 3

Page 2 of 7

Effective date : 01.31.2015

Asprin Powder,Gm

IF ON SKIN: Wash with soap and water.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
Specific treatment (see supplemental first aid instructions on this label).  
Rinse mouth.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
Store in a well ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents and container to an approved waste disposal plant.

Other Non-GHS Classification: None

SECTION 3: Composition/information on ingredients

Ingredients:  

CAS 50-78-2	Acetylsalicylic acid	100 %
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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. Vomiting occurs shortly after ingestion, followed by hyperpnea, tinnitus, and lethargy. Mixed respiratory alkalemia and metabolic acidosis are apparent when arterial blood gases are determined. With severe intoxication, coma, seizures, hypoglycemia, hyperthermia, and pulmonary edema may occur. Death is caused by CNS failure and cardiovascular collapse.

Indication of any immediate medical attention and special treatment needed:  
If seeking medical attention provide SDS document to physician. Physician should treat symptomatically. There is no specific antidote for salicylate intoxication. Sodium bicarbonate is given frequently both to prevent acidemia and to promote salicylate elimination by the kidneys.

SECTION 5: Firefighting measures

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Safety Data Sheet  
according to 29CFR1910/1200 and GHS Rev. 3

Page 3 of 7

Effective date : 01.31.2015

Asprin Powder,Gm

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:  
Thermal decomposition can lead to release of irritating gases and vapors, Carbon oxides.

Advice for firefighters:  
Protective equipment:  
Wear protective eyewear, 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. Avoid contact with eyes, skin, and clothing.

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 eyewear, 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. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust generation. Refer to Section 8.




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. 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 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. Keep in a dry place.

SECTION 8: Exposure controls/personal protection



Control parameters:  
Appropriate engineering controls: 50-78-2, Acetylsalicylic acid, NIOSH PEL TWA 5 mg/m3.  
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.

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Safety Data Sheet  
according to 29CFR1910/1200 and GHS Rev. 3

Page 4 of 7

Effective date : 01.31.2015

Asprin Powder,Gm

Respiratory protection:  
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 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):		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:	3.5 at 2.5 g/l at 20 °C (68 °F)	Relative density:	Not determined
Melting/Freezing point:	134 - 136 °C (273 - 277 °F)	Solubilities:	2.5 G/L (15°C)
Boiling point/Boiling range:	Not determined	Partition coefficient (n-octanol/water):	log pow: 1.19
Flash point (closed cup):	250 °C (482 °F)	Auto/Self-ignition temperature:	Not determined
Evaporation rate:	Not determined	Decomposition temperature:	140 °C (284 °F)
Flammability (solid, gaseous):	Not determined	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined
Density at 20°C:	1.4 g/cm3		

SECTION 10: Stability and reactivity

Reactivity:  
Nonreactive under normal conditions.

Chemical stability:  
Stable under normal conditions. Stable in dry air. In moist air it is gradually hydrolyzed into salicylic and acetic acids.

Possible hazardous reactions:  
None under normal processing.

Conditions to avoid:  
Incompatible materials.

Incompatible materials:  
Strong acids. Strong Bases. Strong oxidizing agents.

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Effective date : 01.31.2015

**Asprin Powder,Gm**

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

**Product name:** Asprin Powder,Gm

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:** SBDAPS210-5G

**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 Education  
9 Barnhart Drive, Hanover, PA 17331  
(877) 401-1782

**Emergency telephone number:**

Emergency Telephone No.: (800) 255-3924

**SECTION 2: Hazards identification**

**Classification of the substance or mixture:**

**Irritant**  
Acute toxicity (oral, dermal, inhalation), category 4  
Skin irritation, category 2  
Eye irritation, category 2A  
Specific target organ toxicity following single exposure, category 3

Acute Oral Tox. 4.  
Skin Irrit. 2.  
Eye Irrit. 2A.  
STOT SE 3, Respiratory system.

**Signal word:** Warning

**Hazard statements:**

Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

**Precautionary statements:**

If medical advice is needed have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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Effective date : 01.31.2015

**Asprin Powder,Gm**

IF ON SKIN: Wash with soap and water.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
Specific treatment (see supplemental first aid instructions on this label).  
Rinse mouth.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
Store in a well ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents and container to an approved waste disposal plant.

**Other Non-GHS Classification:** None

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

**Ingredients:**

Ingredients:		
CAS 50-78-2	Acetylsalicylic acid	100 %
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. Vomiting occurs shortly after ingestion, followed by hypernea, tinnitus, and lethargy. Mixed respiratory alkalemia and metabolic acidosis are apparent when arterial blood gases are determined. With severe intoxication, coma, seizures, hypoglycemia, hyperthermia, and pulmonary edema may occur. Death is caused by CNS failure and cardiovascular collapse.

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

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically. There is no specific antidote for salicylate intoxication. Sodium bicarbonate is given frequently both to prevent acidemia and to promote salicylate elimination by the kidneys.

**SECTION 5: Firefighting measures**

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Effective date : 01.31.2015

**Asprin Powder,Gm**

**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:**

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

**Advice for firefighters:**

**Protective equipment:**

Wear protective eyewear, 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. Avoid contact with eyes, skin, and clothing.

**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 eyewear, 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. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust generation. Refer to Section 8.

**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. 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 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. Keep in a dry place.

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



**Control parameters:**

50-78-2, Acetylsalicylic acid, NIOSH PEL TWA 5 mg/m3.

**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.

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Effective date : 01.31.2015

**Asprin Powder,Gm**

**Respiratory protection:**

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 immediately after handling the product. Avoid contact with skin, eyes, and clothing. Before re-wearing wash contaminated clothing.

**SECTION 9: Physical and chemical properties**

<b>Appearance (physical state, color):</b>		<b>Explosion limit lower:</b>	Not determined
<b>Odor:</b>	Odorless	<b>Explosion limit upper:</b>	Not determined
<b>Odor threshold:</b>	Not determined	<b>Vapor pressure at 20°C:</b>	Not determined
<b>pH-value:</b>	3.5 at 2.5 g/l at 20 °C (68 °F)	<b>Vapor density:</b>	Not determined
<b>Melting/Freezing point:</b>	134 - 136 °C (273 - 277 °F)	<b>Relative density:</b>	Not determined
<b>Boiling point/Boiling range:</b>	Not determined	<b>Solubilities:</b>	2.5 G/L (15°C)
<b>Flash point (closed cup):</b>	250 °C (482 °F)	<b>Partition coefficient (n-octanol/water):</b>	log pow: 1.19
<b>Evaporation rate:</b>	Not determined	<b>Auto/Self-ignition temperature:</b>	Not determined
<b>Flammability (solid, gaseous):</b>	Not determined	<b>Decomposition temperature:</b>	140 °C (284 °F)
<b>Density at 20°C:</b>	1.4 g/cm3	<b>Viscosity:</b>	a. Kinematic: Not determined b. Dynamic: Not determined

**SECTION 10: Stability and reactivity**

**Reactivity:**

Nonreactive under normal conditions.

**Chemical stability:**

Stable under normal conditions. Stable in dry air. In moist air it is gradually hydrolyzed into salicylic and acetic acids.

**Possible hazardous reactions:**

None under normal processing.

**Conditions to avoid:**

Incompatible materials.

**Incompatible materials:**

Strong acids. Strong Bases. Strong oxidizing agents.

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according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.31.2015

**Asprin Powder,Gm**

**Hazardous decomposition products:**

Carbon oxides.

**SECTION 11: Toxicological information****Acute Toxicity:** No additional information.**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:**

Not listed as a carcinogen (ACGIH, IARC, NTP).: 50-78-2 (Acetylsalicylic acid)

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

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals

**STOT-single and repeated exposure:**

Inhalation - May cause respiratory irritation.

**Additional toxicological information:**

No additional information.

**SECTION 12: Ecological information****Ecotoxicity:**

Fish LC50 - Leuciscus idus (Golden orfe) - &gt; 1,000 mg/l - 48 h, 50-78-2 (Acetylsalicylic acid).

Invertebrates EC50 - Daphnia (water flea) - &gt; 100 mg/l - 48 h, 50-78-2 (Acetylsalicylic acid).

Bacteria LC50 - Bacteria - &gt; 10,000 mg/l - 48 h, 50-78-2 (Acetylsalicylic acid).

**Persistence and degradability:**

No biodegradation studies were located for acetylsalicylic acid in soil(SRC, 2008); however, acetylsalicylic acid was classified as readily biodegradable in screening tests(7,8). An aqueous hydrolysis half-life of 6.3 days at pH 7.4 and 17 deg C(9), suggests hydrolysis may occur in moist soils(SRC).

**Bioaccumulative potential:**

Bio concentration in aquatic organisms is low.

**Mobility in soil:**

Compound will primarily exist as an anion in the environment and anions generally do not adsorb as strongly to soils containing organic carbon and clay than their neutral counterparts.

**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

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**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.31.2015

**Asprin Powder,Gm**

50-78-2 Acetylsalicylic acid.

**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:** 2-0-1**HMIS:** 2-0-1**GHS Full Text Phrases:** None**Abbreviations and Acronyms:** None

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**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.31.2015

**Asprin Powder,Gm**

national hazardous waste regulations. Ensure complete and accurate classification.

**SECTION 14: Transport information****US DOT****UN Number:**

ADR, ADN, DOT, IMDG, IATA

2811

**Limited Quantity Exception:**

None

**Bulk:****RQ (if applicable):** None**Proper shipping Name:** TOXIC SOLID, ORGANIC,N.O.S. (ACETYSALICYLIC ACID).**Hazard Class:** 6**Packing Group:** III.**Marine Pollutant (if applicable):** No additional information.**Comments:** None**Non Bulk:****RQ (if applicable):** None**Proper shipping Name:** TOXIC SOLID, ORGANIC,N.O.S. (ACETYSALICYLIC ACID).**Hazard Class:** 6**Packing Group:** III.**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):**

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.

**Proposition 65 (California):****Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

50-78-2 Acetylsalicylic acid.

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

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

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Effective date : 01.08.2015

**Iron Nitrate**

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

**Product name:** Iron Nitrate

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:** SBDPE3375-10ML

**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 Education  
9 Barnhart Drive, Hanover, PA 17331  
(877) 401-1782

**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 7782-61-8	Ferric Nitrate	8.08 %
CAS 7732-18-5	Deionized Water	91.77 %
CAS 7697-37-2	Nitric Acid, ACS	0.15 %
Percentages are by weight		

**SECTION 4: First aid measures**

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Effective date : 01.08.2015

**Iron Nitrate**

**Description of first aid measures**

**After inhalation:**

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical attention if irritation or coughing persists.

**After skin contact:**

Wash affected area with soap and water. Immediately remove contaminated clothing and shoes. Rinse thoroughly with plenty of water for at least 15 minutes. Immediately seek medical attention.

**After eye contact:**

Protect unexposed eye. Flush thoroughly with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do, and continue rinsing. Continue rinsing eyes during transport to hospital.

**After swallowing:**

Rinse mouth thoroughly. Dilute with water or milk. Get medical assistance. Induce vomiting.

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

Inhalation may cause irritation to nose and upper respiratory tract, ulceration, coughing, chest tightness and shortness of breath. Higher concentrations cause tachypnoea, pulmonary oedema and suffocation. Pain, eye ulceration, conjunctival irritation, cataracts and glaucoma may occur following eye exposure. None identified.

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

Provide SDS to Physician. Physician should treat symptomatically.

**SECTION 5: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing agents:**

Use dry chemical, foam, carbon dioxide, or mist to extinguish surrounding fire.

**Unsuitable extinguishing agents:**

None identified.

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

None identified. Not considered to be a fire or explosion hazard.

**Advice for firefighters:**

**Protective equipment:**

Use normal procedures. Use protective clothing. Use NIOSHapproved breathing equipment.

**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:**

Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel from safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Soak up with inert absorbent material and dispose of as hazardous waste. Cover spill with suitable absorbing agent. Mix and add water to form slurry. Wear protective eyewear, gloves, and clothing. Refer to Section 8.

**Reference to other sections:** None

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Effective date : 01.08.2015

**Iron Nitrate**

**SECTION 7: Handling and storage**

**Precautions for safe handling:**

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

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

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Store protected from moisture. Provide ventilation for containers. Keep container tightly closed.

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



**Control parameters:**

7782-61-8, Ferric nitrate nonahydrate, OSHA PEL TWA 1 mg/m3.  
7782-61-8, Ferric nitrate nonahydrate, ACGIH TLV TWA 1 mg/m3.  
7697-37-2, Nitric Acid, NIOSH 4 ppm STEL; 10 mg/m3 STEL.  
7697-37-2, Nitric Acid, NIOSH 2 ppm TWA; 5 mg/m3 TWA.  
7697-37-2, Nitric Acid, ACGIH 4 ppm STEL.  
7697-37-2, Nitric Acid ACGIH, 2 ppm TWA.

**Appropriate engineering controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of handling. Normal ventilation is adequate.

**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:**

Tightly fitting safety goggles. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**General hygienic measures:**

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

**SECTION 9: Physical and chemical properties**

<b>Appearance (physical state, color):</b>	Pale green liquid	<b>Explosion limit lower:</b>	Non Explosive
<b>Odor:</b>	Odorless to slightly pungent	<b>Explosion limit upper:</b>	Non Explosive
<b>Odor threshold:</b>	No information available	<b>Vapor pressure at 20°C:</b>	No information available
<b>pH-value:</b>	No information available	<b>Vapor density:</b>	No Determined.
<b>Melting/Freezing point:</b>	Approx. 0C	<b>Relative density:</b>	Approx. 1 (Water = 1)
		<b>Solubilities:</b>	Soluble.

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Effective date : 01.08.2015

**Iron Nitrate**

<b>Boiling point/Boiling range:</b>	Approx. 100C	<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Flash point (closed cup):</b>	Not applicable	<b>Auto/Self-ignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	No information available	<b>Decomposition temperature:</b>	Not determined
<b>Flammability (solid, gaseous):</b>	Not flammable	<b>Viscosity:</b>	a. Kinematic: Not determined b. Dynamic: Not determined
<b>Density at 20°C:</b>	Approx. 1 g/cm³ (8.345 lbs/gal) at 20 °C (68 °F)		
<b>Hydrochloric Acid</b>	MW is36.46		

**SECTION 10: Stability and reactivity**

**Reactivity:**

Under normal conditions product is stable.

**Chemical stability:**

No decomposition if used and stored according to specifications.

**Possible hazardous reactions:**

None under normal processing.

**Conditions to avoid:**

Incompatible materials.

**Incompatible materials:**

Strong bases, hydrogen sulfides, turpentine, metallic powders, hydrogen sulfides, wood and combustible organics.

**Hazardous decomposition products:**

Can emit toxic fumes of hydrogen nitrate or nitrogen oxides.

**SECTION 11: Toxicological information**

**Acute Toxicity:** No additional information.

**Chronic Toxicity:** No additional information.

**Skin corrosion/irritation:**

Irritating to skin 7782-61-8 (Ferric Nitrate).

**Serious eye damage/irritation:**

Irritating to eyes, 7782-61-8 (Ferric Nitrate).

**Respiratory or skin sensitization:**

None identified.

**Carcinogenicity:**

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

**Reproductive Toxicity:** No additional information.

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

**Additional toxicological information:**

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Safety Data Sheet according to 29CFR1910/1200 and GHS Rev. 3		Page 5 of 7
Effective date : 01.08.2015		
Iron Nitrate		
No additional information.		
SECTION 12: Ecological Information		
Ecotoxicity: No additional information.		
Persistence and degradability:		
No Information Available.		
Bioaccumulative potential:		
No Information Available.		
Mobility in soil:		
No Information Available.		
Other adverse effects:		
No Information Available.		
SECTION 13: Disposal considerations		
Waste disposal recommendations:		
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. Absorb with suitable material and containerize for disposal.		
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):		
Acute, Chronic		
SARA Section 313 (Specific toxic chemical listings):		
7782-61-8 Ferric nitrate nonahydrate.		
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Safety Data Sheet according to 29CFR1910/1200 and GHS Rev. 3		Page 6 of 7
Effective date : 01.08.2015		
Iron Nitrate		
7697-37-2 Nitric Acid.		
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):		
7783-85-9 Ferrous Ammonium Sulfate 1000 lbs.		
7697-37-2 Nitric acid 1000 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: 1-0-0		
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.		
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Safety Data Sheet according to 29CFR1910/1200 and GHS Rev. 3		Page 7 of 7
Effective date : 01.08.2015		
Iron Nitrate		
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 : 12.14.2014


**Sodium Hydroxide, 1.0N**

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

**Product name:** Sodium Hydroxide, 1.0N  
**Manufacturer/Supplier Trade name:**  
**Manufacturer/Supplier Article number:** SBD5H6255-10ML  
**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 Education  
9 Barnhart Drive, Hanover, PA 17331  
(877) 401-1782  
**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

Skin Corr. 1B,  
Eye corr. 1,  
Metal Corr. 1.

**Signal word:** Danger

**Hazard statements:**

May be corrosive to metals.  
Causes severe skin burns and eye damage.  
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.  
Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
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.  
IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  
Immediately call a POISON CENTER or doctor/physician.

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Effective date : 12.14.2014

**Sodium Hydroxide, 1.0N**

release of irritating gases and vapors. Sodium oxides.

**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.

**SECTION 6: Accidental release measures**

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

Wear protective equipment. Transfer to a disposal or recovery container. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat.

**Environmental precautions:**

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

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

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor. 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. Always obey local regulations.

**Reference to other sections:** None

**SECTION 7: Handling and storage**

**Precautions for safe handling:**

Absorb spillage to prevent material damage due to corrosiveness to metal. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Do not mix with acids. Follow good hygiene procedures when handling chemical materials. Use only in well ventilated areas.

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

Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Store with Corrosives.

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



**Control parameters:**

1310-73-2, Sodium Hydroxide, OSHA PEL TWA 2 mg/m3.  
1310-73-2, Sodium Hydroxide, ACGIH TLV TWA 2 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. Use under a chemical fume hood.

**Respiratory protection:**

Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable. Use under a chemical fume hood.

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Effective date : 12.14.2014

**Sodium Hydroxide, 1.0N**

Specific treatment (see supplemental first aid instructions on this label).  
Absorb spillage to prevent material damage.  
Store in a corrosive resistant container with a resistant inner liner.  
Store locked up.  
Dispose of contents/container.

**Other Non-GHS Classification:** None

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

**Ingredients:**

Ingredients:		
CAS 1310-73-2	Sodium Hydroxide	4 %
CAS 7732-18-5	Deionized Water	96 %
Percentages are by weight		

**SECTION 4: First aid measures**

**Description of first aid measures**

**After inhalation:**

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.

**After skin contact:**

Take off contaminated clothing and shoes immediately. Wash affected area with soap and water. Seek medical attention if irritation, discomfort persist.

**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. Immediately get medical assistance.

**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.

**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.

**SECTION 5: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing agents:**

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

**Unsuitable extinguishing agents:**

Carbon dioxide. Carbon dioxide.

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

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to

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Effective date : 12.14.2014

**Sodium Hydroxide, 1.0N**

**Protection of skin:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Eye protection:**

Safety glasses with side shields or goggles.

**General hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

**SECTION 9: Physical and chemical properties**

<b>Appearance (physical state, color):</b>	Clear, colorless liquid	<b>Explosion limit lower:</b>	Non Explosive
<b>Odor:</b>	Odorless	<b>Explosion limit upper:</b>	Non Explosive
<b>Odor threshold:</b>	Not determined	<b>Vapor pressure at 20°C:</b>	14mmHg @ 20C
<b>pH-value:</b>	13.3	<b>Vapor density:</b>	>1
<b>Melting/freezing point:</b>	Approx 0°C	<b>Relative density:</b>	Approx 1
<b>Boiling point/boiling range:</b>	Approx 100°C	<b>Solubilities:</b>	Soluble in Water
<b>Flash point (closed cup):</b>	Not determined	<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Evaporation rate:</b>	Not determined	<b>Auto/Self-ignition temperature:</b>	Not determined
<b>Flammability (solid, gaseous):</b>	Not determined	<b>Decomposition temperature:</b>	Not determined
<b>Density at 20°C:</b>	Not determined	<b>Viscosity:</b>	a. Kinematic: Not determined b. Dynamic: Not determined

**SECTION 10: Stability and reactivity**

**Reactivity:**

Solution attacks metals such as aluminum, tin, lead and zinc. Also generates heat on exposure to acids. Aqueous solutions react violently with acids.

**Chemical stability:**

No decomposition if used and stored according to specifications.

**Possible hazardous reactions:** None

**Conditions to avoid:**

Incompatible materials, excess heat.

**Incompatible materials:**

acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, Zinc.

**Hazardous decomposition products:**

sodium oxides, hydrogen.

**SECTION 11: Toxicological information**

**Acute Toxicity:** None

**Chronic Toxicity:** No additional information.

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**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 12.14.2014

**Sodium Hydroxide, 1.0N****Skin corrosion/irritation:**

Rabbit: Causes Burns, 1310-73-2.

**Serious eye damage/irritation:**

Rabbit: Corrosive to eyes, 1310-73-2.

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

Not listed as a carcinogen.: 1310-73-2

**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.**Persistence and degradability:**

Readily degradable in the environment.

**Bioaccumulative potential:**

Not expected to bio accumulate.

**Mobility in soil:**

-1.87 (water).

**Other adverse effects:** No additional information.**SECTION 13: Disposal considerations****Waste disposal recommendations:**

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product. Neutralize with dilute acid solutions.

**SECTION 14: Transport Information****US DOT****UN Number:**

ADR, ADN, DOT, IMDG, IATA

1824

**Limited Quantity Exception:**

None

**Bulk:**

RQ (if applicable): None

Proper shipping Name: Sodium hydroxide solution.

**Non Bulk:**

RQ (if applicable): None

Proper shipping Name: Sodium hydroxide solution.

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**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 12.14.2014

**Sodium Hydroxide, 1.0N****Hazard Class:** 8**Packing Group:** II.**Marine Pollutant (if applicable):** No additional information.**Comments:** None**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):**

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):**

1310-73-2 Sodium Hydroxide 1000 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:**

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

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**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 12.14.2014

**Sodium Hydroxide, 1.0N**

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**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 : 12.16.2014

Iodine Solution

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

Product name: Iodine Solution

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: SBDIO2823-10ML

Recommended uses of the product and restrictions on use: Laboratory

Manufacturer Details:

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

Supplier Details:

AquaPhoenix Education  
9 Barnhart Drive, Hanover, PA 17331  
(877) 401-1782

Emergency telephone number:

Emergency Telephone No.: (800) 255-3924

SECTION 2: Hazards identification

Classification of the substance or mixture:



Irritant

Skin irritation, category 2

Eye irritation, category 2A

Skin Irritation, Category 2.  
Eye Irritation, Category 2.

Signal word: Warning

Hazard statements:

Causes serious eye irritation.  
Causes skin irritation.

Precautionary statements:

If medical advice is needed have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Wash skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with soap and water.  
Specific treatment (see supplemental first aid instructions on this label).  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.  
Continue rinsing.  
If eye irritation persists get medical advice/attention.

Other Non-GHS Classification: None

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Effective date : 12.16.2014

Iodine Solution

SECTION 3: Composition/information on ingredients

Ingredients:

Ingredients:		
CAS 7681-11-0	Potassium Iodide	3.05 %
CAS 7732-18-5	Deionized Water	95.1 %
CAS 7553-56-2	Iodine	1.85 %
Percentages are by weight		

SECTION 4: First aid measures

Description of first aid measures

After inhalation:

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.

After skin contact:

Wash affected area with soap and water. Rinse thoroughly. Seek medical attention if irritation persists or if concerned.

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.

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.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents:

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Water fog, Foam, Dry chemical powder, Carbon dioxide (CO2).

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.

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.

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Effective date : 12.16.2014

Iodine Solution

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Small quantities may be flushed to drains with plenty of water.

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.

Reference to other sections: None

SECTION 7: Handling and storage

Precautions for safe handling:

Wash hands after handling. Follow good hygiene procedures when handling chemical materials. Use only in well ventilated areas. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Keep container tightly closed. Protect from freezing and physical damage.

SECTION 8: Exposure controls/personal protection



Control parameters: 7681-11-0, Potassium Iodide, ACS, ACGIH NIOSH 0.01 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. Use under a fume hood.

Respiratory protection: Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable. Normal ventilation is adequate.

Protection of skin: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Eye protection: Safety glasses with side shields or goggles.

General hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

SECTION 9: Physical and chemical properties

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Effective date : 12.16.2014

Iodine Solution

Appearance (physical state, color):	Dark brown liquid	Explosion limit lower:	Not determined
Odor:	Weak iodine odor	Explosion limit upper:	Not determined
Odor threshold:	Not determined	Vapor pressure at 20°C:	Not determined
pH-value:	Not determined	Relative density:	Approx 1
Melting/Freezing point:	Approx 0°C	Solubilities:	Soluble in water.
Boiling point/Boiling range:	Approx 100°C	Partition coefficient (n-octanol/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:

No decomposition if used and stored according to specifications.

Possible hazardous reactions:

None under normal processing.

Conditions to avoid:

exposure to light. Incompatible Materials.

Incompatible materials:

Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products:

Hydrogen iodide, Iodine gas. May include oxides of Iodine.

SECTION 11: Toxicological information

Acute Toxicity: No additional information.

Chronic Toxicity: No additional information.

Skin corrosion/irritation:

Rabbit: causes irritation, 7681-11-0.

Serious eye damage/irritation:

Rabbit: causes irritation, 7681-11-0.

Respiratory or skin sensitization: No additional information.

Carcinogenicity:

Germ cell mutagenicity: No additional information.

Reproductive Toxicity: No additional information.

STOT-single and repeated exposure: No additional information.

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Effective date : 12.05.2014

**Salt, Non-Iodized, Gram**

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

Product name: Salt, Non-Iodized, Gram

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S8DSAS024-SG

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 Education  
9 Barnhart Drive, Hanover, PA 17331  
(877) 401-1782

Emergency telephone number:

Emergency Telephone No.: (800) 255-3924

**SECTION 2: Hazards identification**

Classification of the substance or mixture:

 **Irritant**  
Eye Irritation, category 2B

Eye Irritation 2.

Signal word: Warning

Hazard statements:

Causes serious eye irritation.

Precautionary statements:

If medical advice is needed have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Do not eat, drink or smoke when using this product.  
Wash skin thoroughly after handling.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
If eye irritation persists get medical advice/attention.

Other Non-GHS Classification: None

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

Ingredients:

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Effective date : 12.05.2014

**Salt, Non-Iodized, Gram**

Ingredients:

CAS 7647-14-5	Sodium Chloride, ACS	100 %
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Percentages are by weight

**SECTION 4: First aid measures**

Description of first aid measures

**After inhalation:**

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**After skin contact:**

Wash affected area with soap and water. Wash affected area with soap and water. Rinse thoroughly. Seek medical attention if irritation persists or if concerned. Flush with water for 15 minutes. Rinse thoroughly. Seek medical attention if symptoms develop or persist.

**After eye contact:**

Protect unexposed eye. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned. Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

**After swallowing:**

Rinse mouth thoroughly. Do not induce vomiting. Seek medical assistance. Dilute with water or milk.

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

Nausea. Headache. Shortness of breath. Irritation- all routes of exposure.

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

If seeking medical attention, provide SDS document to physician. Note to physician: Treat symptomatically.

**SECTION 5: Firefighting measures**

Extinguishing media

**Suitable extinguishing agents:**

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

**Unsuitable extinguishing agents:** None

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

Combustion products may include sodium oxides or other toxic vapors. 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.

**Advice for firefighters:**

**Protective equipment:**

Use NIOSH-approved breathing equipment.

**Additional information (precautions):**

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use non-sparking equipment/tools.

**SECTION 6: Accidental release measures**

Personal precautions, protective equipment and emergency procedures:

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Effective date : 12.05.2014

**Salt, Non-Iodized, Gram**

Wear protective equipment. Avoid contact with skin and eyes. Always obey local regulations. Avoid contact skin, eyes, and clothing. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent. Transfer to a disposal or recovery container.

**Environmental precautions:**

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

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

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor. 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. Always obey local regulations.

Reference to other sections: None

**SECTION 7: Handling and storage**

Precautions for safe handling:

Follow good hygiene procedures when handling chemical materials. Protect from freezing and physical damage. Keep away from sources of ignition. Store protected from moisture and direct sunlight. Wash hands after handling. Do not eat, drink, smoke, or use personal products when handling chemical substances. If in a laboratory setting, follow Chemical Hygiene Plan. Use only in well ventilated areas. Avoid generation of dust or fine particulate. Avoid dispersal of dust in the air. 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. Avoid contact with eyes, skin, and clothing.

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

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Keep container tightly closed. Protect from freezing and physical damage. Keep away from sources of ignition. Store protected from moisture and direct sunlight.

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



Control parameters:

7647-14-5, ACGIH TLV TWA (inhalable particles), 10 mg/m<sup>3</sup>.  
7647-14-5, OSHA PEL TWA (Total Dust), 15 mg/m<sup>3</sup> (50 mppcf).  
... mppcf = Millions of particles per cubic foot of air.

**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. 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).

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Effective date : 12.05.2014

**Salt, Non-Iodized, Gram**

**Respiratory protection:**

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

**Protection of skin:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Wear protective clothing.

**Eye protection:**

Safety glasses with side shields or goggles.

**General hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

**SECTION 9: Physical and chemical properties**

<b>Appearance (physical state, color):</b>	White solid	<b>Explosion limit lower:</b>	Not determined
<b>Odor:</b>	Odorless	<b>Explosion limit upper:</b>	Not determined
<b>Odor threshold:</b>	Not determined	<b>Vapor pressure at 20°C:</b>	1 mmHg @ 865°C
<b>pH-value:</b>	Not determined	<b>Relative density:</b>	>1
<b>Melting/Freezing point:</b>	801°C	<b>Solubilities:</b>	Soluble in water.
<b>Boiling point/Boiling range:</b>	1461°C	<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Flash point (closed cup):</b>	Not determined	<b>Auto/Self-ignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not determined	<b>Decomposition temperature:</b>	Not determined
<b>Flammability (solid, gaseous):</b>	Not determined	<b>Viscosity:</b>	a. Kinematic: Not determined b. Dynamic: Not determined
<b>Density at 20°C:</b>	Not determined		
<b>Specific Gravity:</b>	2.165		
<b>Molecular Weight:</b>	58.44 g/mol		

**SECTION 10: Stability and reactivity**

**Reactivity:**

Material is hygroscopic.

**Chemical stability:**

No decomposition if used and stored according to specifications.

**Possible hazardous reactions:**

None under normal processing.

**Conditions to avoid:**

Store away from oxidizing agents, strong acids or bases. Incompatible materials, dust generation, combustible materials, exposure to moist air or water, Excess heat.

**Incompatible materials:**

Metals, Strong oxidizers, Strong acids, Strong bases, Incompatible materials, dust generation, combustible

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**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 12.05.2014

**Salt, Non-Iodized, Gram**

materials, exposure to moist air or water.

**Hazardous decomposition products:**

May evolve chlorine gas when in contact with strong acids. Sodium/sodium oxides. Hydrogen chloride gas.

**SECTION 11: Toxicological information****Acute Toxicity:****Dermal:**

LD50 dermal-rabbit (7647-14-5) &gt; 10grn/kg.

**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:****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:**

Fish (acute 7647-14-5), 96 Hr LC50 *Lepomis macrochirus*: 5560 - 6080 mg/L [flow-through]; 96 Hr LC50 *Lepomis macrochirus*: 12946 mg/L [static]; 96 Hr LC50 *Pimephales promelas*: 6020 - 7070 mg/L [static]; 96 Hr LC50 *Pimephales promelas*: 7050 mg/L [semi-static]; 96 Hr LC50 *Pimephales promelas*: 6420 - 6700 mg/L [static]; 96 Hr LC50 *Oncorhynchus mykiss*: 4747 - 7824 mg/L [flow-through].  
Crustacea (acute 7647-14-5): 48 Hr EC50 *Daphnia magna*: 1000 mg/L; 48 Hr EC50 *Daphnia magna*: 340.7 - 469.2 mg/L [Static].

**Persistence and degradability:**

Can attenuate over time. Large amounts can persist in the environment.

**Bioaccumulative potential:** No additional information.**Mobility in soil:**

Soluble in water; thus mobile along soil/water interface.

**Other adverse effects:**

Should not be released into environment.

**SECTION 13: Disposal considerations****Waste disposal recommendations:**

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

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according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 12.05.2014

**Salt, Non-Iodized, Gram****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):**

Acute

**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.

**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.

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**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 12.05.2014

**Salt, Non-Iodized, Gram****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:**

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 : 01.08.2015

### Distilled Water

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

**Product name:** Distilled Water  
**Manufacturer/Supplier Trade name:**  
**Manufacturer/Supplier Article number:** SBDDW4000-10ML  
**Recommended uses of the product and restrictions on use:** Laboratory  
**Manufacturer Details:**  
AquaPhoenix Scientific  
9 Barnhart Drive, Hanover, PA 17331  
(717) 632-1291  
**Supplier Details:**  
AquaPhoenix Education  
9 Barnhart Drive, Hanover, PA 17331  
(877) 401-1782  
**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:**  
None  
**Other Non-GHS Classification:** None

#### SECTION 3: Composition/Information on Ingredients

Ingredients:		
CAS 7732-18-5	Deionized Water	100 %
Percentages are by weight		

#### SECTION 4: First aid measures

**Description of first aid measures**  
**After inhalation:**  
Move exposed individual to fresh air.  
**After skin contact:**

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Effective date : 01.08.2015

### Distilled Water

Wash affected area with soap and water.  
**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.  
**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.

#### SECTION 5: Firefighting measures

**Extinguishing media**  
**Suitable extinguishing agents:**  
If in laboratory setting, follow laboratory fire suppression procedures.  
**Unsuitable extinguishing agents:** None  
**Special hazards arising from the substance or mixture:** None  
**Advice for firefighters:**  
**Protective equipment:** None  
**Additional Information (precautions):**  
Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

#### SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**  
Stop the spill, if possible. Contain spilled material by diking or using inert absorbent.  
**Environmental precautions:**  
Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.  
**Methods and material for containment and cleaning up:**  
If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.

#### SECTION 7: Handling and storage

**Reference to other sections:** None  
**Precautions for safe handling:**  
Follow good hygiene procedures when handling chemical materials. Avoid splashes or spray in enclosed areas.  
**Conditions for safe storage, including any incompatibilities:**  
Store in cool, dry conditions in well sealed containers.

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



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### Distilled Water

**Control parameters:**  
**Appropriate engineering controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling.  
**Respiratory protection:** Not required under normal conditions of use. Use suitable respiratory protective device when aerosol or mist is formed.  
**Protection of skin:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.  
**Eye protection:** Safety glasses with side shields or goggles.  
**General hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

#### SECTION 9: Physical and chemical properties

<b>Appearance (physical state, color):</b>	Clear, colorless liquid	<b>Explosion limit lower:</b>	Not determined
<b>Odor:</b>	Odorless	<b>Explosion limit upper:</b>	Not determined
<b>Odor threshold:</b>	Not determined	<b>Vapor pressure at 20°C:</b>	17.5 mmHg @20C
<b>pH-value:</b>	Not determined	<b>Vapor density:</b>	Not determined
<b>Melting/Freezing point:</b>	0C	<b>Relative density:</b>	1.000
<b>Boiling point/Boiling range:</b>	100C	<b>Solubilities:</b>	None
<b>Flash point (closed cup):</b>	Not determined	<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Evaporation rate:</b>	Not determined	<b>Auto/Self-ignition temperature:</b>	Not determined
<b>Flammability (solid, gaseous):</b>	Not determined	<b>Decomposition temperature:</b>	Not determined
<b>Density at 20°C:</b>	Not determined	<b>Viscosity:</b>	a. Kinematic: Not determined b. Dynamic: Not determined

#### SECTION 10: Stability and reactivity

**Reactivity:** None  
**Chemical stability:**  
No decomposition if used and stored according to specifications.  
**Possible hazardous reactions:** None  
**Conditions to avoid:**  
Store away from oxidizing agents, strong acids or bases.  
**Incompatible materials:**  
Strong acids. Strong bases.  
**Hazardous decomposition products:**  
Carbon oxides (CO, CO2).

#### SECTION 11: Toxicological information

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### Distilled Water

**Acute Toxicity:** No additional information.  
**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:**  
**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.  
**Persistence and degradability:**  
Readily degradable in the environment.  
**Bioaccumulative potential:** No additional information.  
**Mobility in soil:**  
Aqueous solution has high mobility in soil.  
**Other adverse effects:** No additional information.

#### SECTION 13: Disposal considerations

**Waste disposal recommendations:**  
Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal/state/provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

#### SECTION 14: Transport information

##### US DOT

**UN Number:**  
ADR, ADN, DOT, IMDG, IATA  
Not Dangerous Goods  
**Limited Quantity Exception:**  
None  
**Bulk:**  
RQ (if applicable): None  
Proper shipping Name: Not Dangerous Goods.  
Hazard Class: None  
Packing Group: Not Dangerous Goods.  
Marine Pollutant (if applicable): No additional information.  
Comments: None  
**Non Bulk:**  
RQ (if applicable): None  
Proper shipping Name: Not Dangerous Goods.  
Hazard Class: None  
Packing Group: Not Dangerous Goods.  
Marine Pollutant (if applicable): No additional information.  
Comments: None

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Effective date : 01.08.2015

**Distilled Water****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.

**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.

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Effective date : 01.08.2015

**Distilled Water**

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).

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