according to 29CFR1910/1200 and GHS Rev. 3

**Effective date** : 03.03.2015

### Phenol, Liquified

SECTION 1: Identification of the substance/mixture and of the supplier				
Product name:	Phenol, Liquified			
Manufacturer/Supplier Trade name:				
Manufacturer/Supplier Article number:	S25463			
Recommended uses of the product and restriction	ons on use:			
Manufacturer Details:				
AquaPhoenix Scientific, Inc 9 Barnhart Drive, Hanover, PA 17331 (717) 632-1291				
Supplier Details:				
Fisher Science Education 6771 Silver Crest Road, Nazareth, PA 18064 (724)517-1954				
Emergency telephone number:				
Fisher Science Education				

Emergency Telephone No.: 800-535-5053

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

### Classification of the substance or mixture:



Acute toxicity (oral, dermal, inhalation), category 3

#### Corrosive

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

Health hazard Germ cell mutagenicity, category 2 Specific target organ toxicity following repeated exposure, category 2



# Environmentally Damaging

Chronic hazards to the aquatic environment, category 3

Ac. Oral Tox. 3. Aq. ChrTox. 2. Ac. Inhal Tox. 3. Ac. Dermal Tox. 3. Skin Corr. 1B. Eye. Damage 1. Germ Cell. STOT RE 2. Aq. AcTox. 3.

Signal word: Danger

Hazard statements:

Toxic if swallowed.

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# **Phenol, Liquified**

Toxic in contact with skin. Causes severe skin burns and eye damage. Toxic if inhaled. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage. Harmful to aquatic life. Toxic to aquatic life with long lasting effects. Precautionary statements:

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

Keep out of reach of children.

Read label before use.

Obtain special instructions before use.

Avoid release to the environment.

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

Do not breathe 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: Immediately call a POISON CENTER or doctor/physician.

Collect spillage.

Rinse mouth.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

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

Immediately call a POISON CENTER or doctor/physician.

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

IF exposed or concerned: Get medical advice/attention.

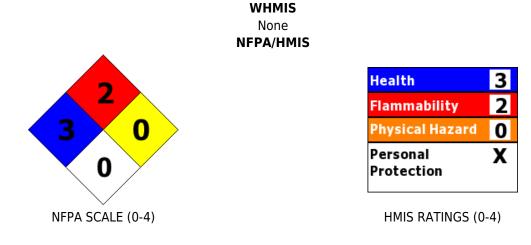
Take off contaminated clothing and wash before reuse.

Store locked up.

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

Dispose of contents and container to an approved waste disposal plant.

# **Other Non-GHS Classification:**





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**Phenol, Liquified** 

Ingredients:			
CAS 108-95-2	Phenol	>89 %	
CAS 7732-18-5	Deionized Water	<11 %	
CAS 6153-56-6	Oxalic acid, dihydrate	<0.01 %	
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. DO NOT use mouth - t o - mouth resuscitation if victim ingested or inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one - way valve or other proper respiratory medical device.

### After skin contact:

Immediately enter emergency shower rinsing while removing contaminated clothing and shoes. Transport victim to the hospital. Wash hands and exposed skin with soap and plenty of water. Discard contaminated clothing in a manner which limits further exposure. SPEEDY ACTION IS CRITICAL!. Destroy contaminated shoes.

### After eye contact:

Incompatible materials. Continue rinsing eyes during transport to the hospital. Protect unexposed eye. Remove contact lenses while rinsing. DO NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required for at least 30 minutes.

#### After swallowing:

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately seek medical attention. Notify a physician immediately and call Poison Control.

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

Irritation. Shortness of breath. Headache. Nausea. Dizziness. Central Nervous System impairment. Upper Respiratory Tract irritation. Lung damage. Eye irritation. Skin irritation.

# 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. A vapor suppressing foam may be used to reduce vapors.

# Unsuitable extinguishing agents: None

# Special hazards arising from the substance or mixture:

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

### Advice for firefighters:

#### **Protective equipment:**

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

# Additional information (precautions):

according to 29CFR1910/1200 and GHS Rev. 3

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### **Phenol, Liquified**

Avoid dust formation. 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. Use spark proof tools.

#### **Environmental precautions:**

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

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

Wear protective eyeware, gloves, and clothing. Refer to Section 8. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Absorb with suitable material and containerize for disposal. Remove all sources of ignition.

#### 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. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances. Keep away from heat, sparks and flame. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

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

Store in a cool location. Store protected from moisture. Keep from contact with oxidizing materials. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Store protected from light. Keep container closed when not in use.

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

Control Parameters:	108-95-2, Phenol, TWA 5.000000 ppm USA. ACGIH. 108-95-2, Phenol, TWA 5.000000 ppm 19.000000 mg/m3 USA. NIOSH. 108-95-2, Phenol, TWA 5.000000 ppm 19.000000 mg/m3 USA. OSHA. 108-95-2, Phenol, 250mg/g Creatinine Urine ACGIH (BEI). 6153-56-6, Oxalic acid dihydrate, TWA 1 mg/m3 USA. ACGIH. 6153-56-6, Oxalic acid dihydrate, TWA 1.000000 mg/m3 USA. OSHA. 6153-56-6, Oxalic acid dihydrate, TWA 1.000000 mg/m3 USA. NIOSH.		
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.		
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.		

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 03.03.2015 Page 5 of 8 **Phenol, Liquified** 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. Tightly fitting safety goggles and faceshield (8 - inch minimum) are Eye protection: appropriate eye protection. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Perform routine housekeeping. Wash hands before breaks and General hygienic measures: immediately after handling the product. Avoid contact with skin, eyes, and clothing. Before rewearing wash contaminated clothing. Discard contaminated shoes.

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

Appearance (physical state, color):	Clear colorless liquid	Explosion limit lower: Explosion limit upper:	1.7 %(V) 8.6 %(V)
Odor:	disinfectant odor	Vapor pressure at 20°C:	3.2
Odor threshold:	Not Determined	Vapor density:	3.2
pH-value:	6.0	Relative density:	1.07 g/cm3
Melting/Freezing point:	42.8 °C	Solubilities:	Soluble in water.
Boiling point/Boiling range:	182.0 °C	Partition coefficient (n- octanol/water):	log Pow : 1.46
Flash point (closed cup):	79.4 °C	Auto/Self-ignition temperature:	715.0 °C
Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid, gaseous):	Flammable	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density at 20°C:	Not Determined		

#### SECTION 10: Stability and reactivity

#### **Reactivity:**

Nonreactive under normal conditions.

#### **Chemical stability:**

Stable under normal conditions.

#### **Possible hazardous reactions:**

None under normal processing.

### Conditions to avoid:

Incompatible materials. Light, ignition sources, excess heat, exposure to moist air or water.

#### Incompatible materials:

Strong oxidizing agents, isocyanates, acetaldehyde, calcium hypochlorite, peroxomonosulfuric acid, nitrobenzene, sodium nitrite, aluminum chloride, peroxydisulfuric acid, 1,3 - butadiene, boron trifluoride diethyl ether.

### Hazardous decomposition products:

Carbon oxides.

according to 29CFR1910/1200 and GHS Rev. 3

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# **Phenol, Liquified**

# **SECTION 11: Toxicological information**

#### Acute Toxicity:

#### **Oral**:

108-95-2 LD50 Oral - Rat - 317.0 mg/kg (Behavioral:Convulsions or effect on seizure threshold)

108-95-2 LD50 Dermal - Rabbit - 630.0 mg/kg

6153-56-6 LD50 Oral - Rat - 1,080 mg/kg

#### Inhalation:

108-95-2 LC50 Inhalation - Rat - 8 h - 900 mg/m3

Chronic Toxicity: No additional information.

### Corrosion Irritation:

#### Dermal:

108-95-2 Skin - Rabbit Result : Severe skin irritation - 24 h

6153-56-6 Skin - Rabbit Result : Mild skin irritation

# Ocular:

108-95-2 Eyes - Rabbit Result : Corrosive to eyes

6153-56-6 Eyes - Rabbit Result : Risk of serious damage to eyes.

Sensitization: No additional information.

Numerical Measures: No additional information.

Carcinogenicity: No additional information.

Mutagenicity: No additional information.

# Reproductive Toxicity:

6153-56-6: P ossible risk of congenital malformation in the fetus.

#### **SECTION 12: Ecological information**

#### **Ecotoxicity:**

108-95-2: LC50 - Leuciscus idus (Golden orfe) - 14.00 - 25.00 mg/l - 48 h

108-95-2: LC50 - Carassius auratus (goldfish) - 36.10 - 68.80 mg/l - 96 h

108-95-2: EC50 - Daphnia magna (Water flea) - 56 mg/l - 48 h

108-95-2: EC50 - Chlorella vulgaris (Fresh water algae) - 370.00 mg/l - 96 h

6153-56-6: LC50 - Leuciscus idus (Golden orfe) - 160 mg/l - 48 h

6153-56-6: EC50 - Daphnia magna (Water flea) - 137 mg/l - 48 h

# Persistence and degradability:

108-95-2: Result : - Readily biodegradable. Phenol, Liquified: Half - life: day 15 hours, night 12 minutes.

Bioaccumulative potential: No additional information.

Mobility in soil:

Mobile in soil and water.

**Other adverse effects**: No additional information.

### SECTION 13: Disposal considerations

Waste disposal recommendations:

according to 29CFR1910/1200 and GHS Rev. 3

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### **Phenol, Liquified**

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

# **SECTION 14: Transport information**

### **US DOT**

**UN Number:** ADR, ADN, DOT, IMDG, IATA

### **Limited Quantity Exception:**

Bulk: RQ (if applicable): None Proper shipping Name: Phenol Solutions. Hazard Class: 6 Packing Group: II. Marine Pollutant (if applicable): No additional information. Comments: None UN2821

None

Non Bulk: RQ (if applicable): None Proper shipping Name: Phenol Solutions. Hazard Class: 6 Packing Group: II. Marine Pollutant (if applicable): No additional information. Comments: None



# **SECTION 15: Regulatory information**

# United States (USA)

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

Acute, Chronic, Fire

SARA Section 313 (Specific toxic chemical listings):

108-95-2 Phenol.

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):

108-95-2 Phenol 1000 lb.

# Proposition 65 (California):

# Chemicals known to cause cancer:

None of the ingredients are listed.

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### **Phenol, Liquified**

# 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.

# Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

# Canadian NPRI Ingredient Disclosure list (limit 1%):

108-95-2 Phenol.

# **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.

# GHS Full Text Phrases: None

Abbreviations and Acronyms: None

**Effective date**: 03.03.2015 **Last updated**: 06.17.2015