

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 01.24.2018

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Phenol

## SECTION 1: Identification

### Product identifier

**Product name:** Phenol

**Product code:** PH4050

### Recommended use of the product and restriction on use

**Relevant identified uses:** Laboratory Chemicals

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

### Manufacturer or supplier details

**Manufacturer:**

**United States**

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331

1-717-632-1291

### Emergency telephone number:

**United States**

**ChemTel Inc**

+1(800)255-3924

+1(813)248-0585

## SECTION 2: Hazard(s) identification

### GHS classification:

Acute toxicity (oral), category 3

Acute toxicity (dermal), category 3

Acute toxicity (inhalation), category 3

Skin corrosion, category 1B

Germ cell mutagenicity, category 2

Specific target organ toxicity - repeated exposure, category 2

### Label elements

#### Hazard pictograms:



**Signal word:** Danger

### Hazard statements:

H301 Toxic if swallowed

H311 Toxic in contact with skin

H331 Toxic if inhaled

H314 Causes severe skin burns and eye damage

H341 Suspected of causing genetic defects

H373 May cause damage to organs through prolonged or repeated exposure

### Precautionary statements:

P264 Wash skin thoroughly after handling

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P270 Do not eat, drink or smoke when using this product  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P271 Use only outdoors or in a well-ventilated area  
P260 Do not breathe dust/fume/gas/mist/vapors/spray  
P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P363 Wash contaminated clothing before reuse  
P302+P352+P312 If on skin: Wash with soap and water. Call a poison center or doctor/physician if you feel unwell  
P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician  
P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.  
P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.  
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
P308+P313 If exposed or concerned: Get medical advice/attention  
P405 Store locked up  
P403+P233 Store in a well ventilated place. Keep container tightly closed  
P501 Dispose of contents and container as instructed in Section 13

**Hazards not otherwise classified:** None

### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 108-95-2	Phenol	100

**Additional Information:** None

### SECTION 4: First aid measures

#### Description of first aid measures

##### General notes:

Not determined or not applicable.

##### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position  
Maintain an unobstructed airway  
Move exposed individual to fresh air  
Call a POISON CONTROL CENTER or seek medical attention

##### After skin contact:

Rinse affected area with soap and water  
If symptoms develop or persist, seek medical attention  
Immediately remove all contaminated clothing  
Wash affected area with soap and water  
Seek medical attention if symptoms develop or persist  
Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

##### After eye contact:

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

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If symptoms develop or persist, seek medical attention  
Remove contact lens(es) if able to do so during rinsing  
Immediately call a POISON CONTROL CENTER or seek medical attention

#### After swallowing:

Rinse mouth thoroughly  
Seek medical attention if irritation, discomfort, or vomiting persists  
Immediately call a POISON CONTROL CENTER or seek medical attention  
Do not induce vomiting  
Rinse mouth and then drink plenty of water

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

##### Acute symptoms and effects:

Not determined or not applicable.

##### Delayed symptoms and effects:

Not determined or not applicable.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not applicable.

##### Notes for the doctor:

Not determined or not applicable.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

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

##### Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

#### Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing  
Refer to Section 8

#### Special precautions:

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

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation  
Ensure air handling systems are operational  
Wear protective eye wear, gloves and clothing

#### Environmental precautions:

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

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

Wear protective eye wear, gloves and clothing

#### Reference to other sections:

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Not determined or not applicable.

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.  
Avoid breathing mist or vapor.

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

Store in a cool, well-ventilated area.

### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Phenol	108-95-2	OSHA PEL TWA 19 mg/m <sup>3</sup> [skin]
	Phenol	108-95-2	OSHA PEL TWA 5 ppm [skin]
NIOSH	Phenol	108-95-2	NIOSH REL TWA 5 ppm [skin]
	Phenol	108-95-2	NIOSH REL TWA 19 mg/m <sup>3</sup> [skin]
	Phenol	108-95-2	NIOSH REL C 15.6 ppm [15-minute] [skin]
	Phenol	108-95-2	NIOSH REL C 60 mg/m <sup>3</sup> [15-minute] [skin]
ACGIH	Phenol	108-95-2	ACGIH TLV TWA 5 ppm [skin]

#### Biological limit values:

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

#### Information on monitoring procedures:

Not determined or not applicable.

#### Appropriate engineering controls:

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

#### Personal protection equipment

##### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

##### Skin and body protection:

Select glove material impermeable and resistant to the substance.

##### Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

#### General hygienic measures:

Wash hands before breaks and at the end of work.  
Avoid contact with skin, eyes and clothing.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Clear, colorless crystals
Odor	Disinfectant odor

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Odor threshold	Not determined or not available.
pH	6
Melting point/freezing point	39 - 42°C / 102.2 - 107.6°F
Initial boiling point/range	182°C / 359.6°F@ 760 mmHg
Flash point (closed cup)	79°C / 174.2°F
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Flammable
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	0.4 mbar @ 20 °C
Vapor density	3.2
Density	Not determined or not available.
Relative density	1.070 g/cm <sup>3</sup>
Solubilities	Material is water soluble
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

### Other information

#### SECTION 10: Stability and reactivity

##### Reactivity:

Does not react under normal conditions of use and storage.

##### Chemical stability:

Stable under normal conditions of use and storage.

##### Possibility of hazardous reactions:

None under normal conditions of use and storage.

##### Conditions to avoid:

Store away from oxidizing agents, strong acids or bases.

##### Incompatible materials:

Strong acids. Strong bases. Oxidizing agents.

##### Hazardous decomposition products:

Carbon oxides (CO, CO<sub>2</sub>).

#### SECTION 11: Toxicological information

##### Acute toxicity

**Assessment:** Toxic if swallowed Toxic in contact with skin Toxic if inhaled

**Product data:** No data available.

**Substance data:**

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Name	Route	Result
Phenol	oral	LD50 - Mouse - 270 mg/kg
	dermal	LD50 - Rabbit - 630 mg/kg

#### Skin corrosion/irritation

**Assessment:** Causes severe skin burns and eye damage

**Product data:** No data available.

**Substance data:**

Name	Result
Phenol	Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

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

**Product data:** No data available.

**Substance data:** No data available.

#### Respiratory or skin sensitization

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

**Product data:** No data available.

**Substance data:** No data available.

#### Carcinogenicity

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

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):**

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

**National Toxicology Program (NTP):** None of the ingredients are listed.

#### Germ cell mutagenicity

**Assessment:** Suspected of causing genetic defects

**Product data:** No data available.

**Substance data:**

Name	Result
Phenol	Suspected of causing genetic defects.

#### Reproductive toxicity

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

**Product data:** No data available.

**Substance data:** No data available.

#### Specific target organ toxicity (single exposure)

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

**Product data:** No data available.

**Substance data:**

Name	Result
Phenol	May cause damage to organs through prolonged or repeated exposure.

#### Specific target organ toxicity (repeated exposure)

**Assessment:** May cause damage to organs through prolonged or repeated exposure

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**Product data:** No data available.

**Substance data:** No data available.

#### Aspiration toxicity

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

**Product data:** No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available.

**Other information:** No data available.

### SECTION 12: Ecological information

#### Acute (short-term) toxicity

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

**Product data:** No data available.

**Substance data:**

Name	Result
Phenol	LC50 (4 days): 8.9 - 67.5 mg/L

#### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

#### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

#### Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

#### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

### SECTION 13: Disposal considerations

#### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

### SECTION 14: Transport information

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

UN number	1671
UN proper shipping name	PHENOL, SOLID
UN transport hazard class(es)	6.1
Packing group	II
Environmental hazards	None
Special precautions for user	None



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Reportable quantity	1000
Excepted quantities	1g/1mL
Passenger air/rail	25KG
Cargo aircraft only	100KG
Stowage category	A

#### International Maritime Dangerous Goods (IMDG)

UN number	1671
UN proper shipping name	PHENOL, SOLID
UN transport hazard class(es)	6.1
Packing group	II
Environmental hazards	None
Special precautions for user	None
Excepted quantities	1g/1mL
Limited quantity	500g



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

UN number	1671
UN proper shipping name	PHENOL, SOLID
UN transport hazard class(es)	6.1
Packing group	II
Environmental hazards	None
Special precautions for user	None
ERG code	153
Excepted quantities	1g/1mL
Passenger and cargo	25KG
Cargo aircraft only	100KG
Limited quantity	500g



### SECTION 15: Regulatory information

#### United States regulations

##### Inventory listing (TSCA):

108-95-2	Phenol	Listed
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Significant New Use Rule (TSCA Section 5): Not determined.

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

##### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

##### SARA Section 302 extremely hazardous substances:

108-95-2	Phenol	Listed
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#### SARA Section 313 toxic chemicals:

108-95-2	Phenol	Listed
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#### CERCLA:

108-95-2	Phenol	Listed	1000
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RCRA: Not determined.

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

#### Massachusetts Right to Know:

108-95-2	Phenol	Listed
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#### New Jersey Right to Know:

108-95-2	Phenol	Listed
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#### New York Right to Know:

108-95-2	Phenol	Listed
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#### Pennsylvania Right to Know:

108-95-2	Phenol	Listed
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California Proposition 65: Not determined.

### SECTION 16: Other information

Abbreviations and Acronyms: None

#### Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 0-2-0

HMIS: 3-2-0

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End of Safety Data Sheet