

# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.24.2018

Page 1 of 10

**Phenol, Liquified**

## SECTION 1: Identification

### Product identifier

**Product name:** Phenol, Liquified

**Product code:** S25463

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

**Relevant identified uses:** Not determined or not applicable.

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

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

### Manufacturer or supplier details

**Manufacturer:**

AquaPhoenix Scientific  
860 Gitts Run Road  
Hanover  
PA 17331  
(717) 632-1291

**Supplier:**

Fisher Science Education  
6771 Silver Crest Road  
Nazareth  
PA 18064  
800 955-1177

### Emergency telephone number:

**United States**

Emergency Telephone No.: 800-255-3924

## SECTION 2: Hazard identification

### GHS classification:

Skin corrosion, category 1B

Acute toxicity (oral), category 3

Acute toxicity (dermal), category 3

Acute toxicity (inhalation), category 3

Germ cell mutagenicity, category 2

Specific target organ toxicity - repeated exposure, category 2

### Label elements

**Hazard pictograms:**



**Signal word:** Danger

### Hazard statements:

H314 Causes severe skin burns and eye damage

H301 Toxic if swallowed

H311 Toxic in contact with skin

H331 Toxic if inhaled

H341 Suspected of causing genetic defects

H373 May cause damage to organs through prolonged or repeated exposure

# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.24.2018

Page 2 of 10

## Phenol, Liquified

### Precautionary statements:

- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P264 Wash skin thoroughly after handling
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- 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
- 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.
- P302+P352+P312 If on skin: Wash with soap and water. Call a poison center or doctor/physician if you feel unwell
- 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: 6153-56-6	Oxalic Acid	<0.01
CAS number: 108-95-2	Phenol	>89
CAS number: 7732-18-5	Deionized Water	<11

**Additional Information:** None

## SECTION 4: First-aid measures

### Description of first-aid measures

#### General notes:

Not determined or not available.

#### After inhalation:

- Loosen clothing as necessary and position individual in a comfortable position
- Maintain an unobstructed airway
- Get medical advice/attention if you feel unwell
- Move exposed individual to fresh air

## Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.24.2018

Page 3 of 10

### Phenol, Liquified

Immediately call a POISON CONTROL CENTER or seek medical attention  
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  
Immediately call a POISON CONTROL CENTER or seek medical attention  
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  
Remove contact lenses, if present and easy to do  
Continue rinsing  
Get medical advice/attention  
Remove contact lens(es) if able to do so during rinsing  
Immediately call a POISON CONTROL CENTER or seek medical attention

#### After ingestion:

Rinse mouth and then drink plenty of water  
Do not induce vomiting  
Get medical advice/attention if you feel unwell  
Immediately call a POISON CONTROL CENTER or seek medical attention

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

##### Acute symptoms and effects:

Not determined or not available.

##### Delayed symptoms and effects:

Not determined or not available.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not available.

##### Notes for the doctor:

Not determined or not available.

### SECTION 5: Fire-fighting 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  
Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.24.2018

Page 4 of 10

## Phenol, Liquified

### Special precautions:

- Heating causes a rise in pressure, risk of bursting and combustion
- Shut off sources of ignition
- Carbon monoxide and carbon dioxide may form upon combustion

## 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:

- Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
- Dispose of contents / container in accordance with local regulations

### Reference to other sections:

- 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.
- Use only with adequate ventilation.

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

- Store in a cool, well-ventilated area.
- Store away from foodstuffs.

## 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]
	Oxalic Acid	6153-56-6	OSHA PEL 1.0 mg/m <sup>3</sup>
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]
	Oxalic Acid	6153-56-6	ACGIH TLV 1.0 mg/m <sup>3</sup>

# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.24.2018

Page 5 of 10

## Phenol, Liquified

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Oxalic Acid	6153-56-6	ACGIH STEL 2.0 mg/m <sup>3</sup>

### 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.

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.

### 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.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance (physical state, color):</b>	Clear colorless liquid
<b>Odor:</b>	Disinfectant odor
<b>Odor threshold:</b>	Not determined or not available.
<b>pH-value:</b>	6.0
<b>Melting/Freezing point:</b>	42.8 °C
<b>Boiling point/range:</b>	182.0 °C
<b>Flash point:</b>	79.4 °C
<b>Evaporation rate:</b>	Not determined or not available.
<b>Flammability (solid, gaseous):</b>	Flammable
<b>Explosion limit upper:</b>	8.6 %(V)
<b>Explosion limit lower:</b>	1.7 %(V)
<b>Vapor pressure:</b>	3.2
<b>Vapor density:</b>	3.2
<b>Density:</b>	Not determined or not available.
<b>Relative density:</b>	1.07 g/cm <sup>3</sup>
<b>Solubilities:</b>	Soluble in water.

# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.24.2018

Page 6 of 10

## Phenol, Liquified

<b>Partition coefficient (n-octanol/water):</b>	log pow: 1.46
<b>Auto/Self-ignition temperature:</b>	715.0 °C
<b>Decomposition temperature:</b>	Not determined or not available.
<b>Dynamic viscosity:</b>	Not determined or not available.
<b>Kinematic viscosity:</b>	Not determined or not available.
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	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:

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.

## 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:

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.

# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.24.2018

Page 7 of 10

## Phenol, Liquified

### Substance data:

Name	Result
Oxalic Acid	Causes serious eye damage.

### 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

**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.

# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.24.2018

Page 8 of 10

## Phenol, Liquified

**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

#### Canadian Transportation of Dangerous Goods (TDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

#### International Maritime Dangerous Goods (IMDG)

UN number	2821
UN proper shipping name	PHENOL SOLUTION




# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015


Initial preparation date: 01.24.2018

Page 9 of 10

## Phenol, Liquified

UN transport hazard class(es)	6.1	
Packing group	II	
Environmental hazards	None	
Special precautions for user	None	
Excepted quantities	1g/1mL	
Limited quantity	100 mL	

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

UN number	2821	
UN proper shipping name	PHENOL SOLUTION	
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	60L	
Cargo aircraft only	220L	
Limited quantity	100 mL	

## SECTION 15: Regulatory information

### Canada regulations

#### Domestic substances list (DSL):

108-95-2	Phenol	Listed
7732-18-5	Deionized Water	Listed
6153-56-6	Oxalic Acid	Not Listed

Non-domestic substances list (NDSL): 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

## Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.24.2018

Page 10 of 10

### Phenol, Liquified

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:** 3-2-0

**HMIS:** 3-2-0

**Initial preparation date:** 01.24.2018

**End of Safety Data Sheet**