



# SAFETY DATA SHEET

Preparation Date: 11/08/2013

Revision Date: 1/29/2016

Revision Number: G2

## 1. IDENTIFICATION

### Product identifier

**Product code:** P1070  
**Product Name:** PHENOL, LIQUEFIED, REAGENT

### Other means of identification

**Synonyms:** Carboic acid, liquified  
**CAS #:** Mixture  
**RTECS #** SJ3325000  
**CI#:** Not available

### Recommended use of the chemical and restrictions on use

**Recommended use:** Disinfectant.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Vapors)	Category 1
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1Sub-category B
Serious eye damage/eye irritation	Category 1
Germ cell mutagenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

### Label elements

**Product code:** P1070

**Product name:** PHENOL, LIQUEFIED,  
REAGENT

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## **Danger**

### **Hazard statements**

Harmful if swallowed  
Toxic in contact with skin  
Fatal if inhaled  
Causes severe skin burns and eye damage  
Suspected of causing genetic defects  
May cause damage to organs through prolonged or repeated exposure



### **Hazards not otherwise classified (HNOC)**

Not Applicable

### **Other hazards**

Not available

### **Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area  
Do not breathe dust/fume/gas/mist/vapors/spray  
Wear respiratory protection

### **Precautionary Statements - Response**

*Specific treatment (see .? on this label)*

*Specific treatment is urgent (see .? on this label)*

*Immediately call a POISON CENTER or doctor/physician*

*Specific treatment (see .? on this label)*

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.

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

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up

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

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Phenol 108-95-2	108-95-2	88-91
Water 7732-18-5	7732-18-5	9-12

### 4. FIRST AID MEASURES

#### First aid measures

##### **General Advice:**

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

##### **Skin Contact:**

Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician immediately.

##### **Eye Contact:**

Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

##### **Inhalation:**

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-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. Immediate medical attention is required. Call a physician immediately.

##### **Ingestion:**

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

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

##### **Symptoms**

Severe skin and eye irritation or burns. May cause gastrointestinal (digestive) tract burns. Can burn mouth, throat, and stomach. Dyspnea (Shortness of breath and difficulty breathing). Rapid breathing. May cause build-up of fluid in the lungs (pulmonary edema). May cause methemoglobinemia and cyanosis. May cause central nervous system effects. Pallor. Excessive sweating. Hypotension. Cardiac arrhythmias. Pupillary dilation.

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

##### **Notes to Physician:**

Treat symptomatically

#### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

### 5. FIRE-FIGHTING MEASURES

#### **Extinguishing Media**

##### **Suitable Extinguishing Media:**

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray mist or foam. Alcohol-resistant foam.

##### **Unsuitable Extinguishing Media:**

No information available.

## **Specific hazards arising from the chemical**

### **Hazardous Combustion Products:**

Carbon monoxide; Carbon dioxide

### **Specific hazards:**

Combustible material  
Containers may explode when heated  
Contact with metals may evolve flammable hydrogen gas  
When heated, vapors may form explosive mixtures with air:  
indoors, outdoors and sewers explosion hazards

## **Special Protective Actions for Firefighters**

### **Specific Methods:**

Dike fire-control water for later disposal; do not scatter the material. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

### **Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## **6. ACCIDENTAL RELEASE MEASURES**

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

#### **Personal Precautions:**

Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Do not let product enter drains. Should not be released into the environment.

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

#### **Methods for containment**

Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

#### **Methods for cleaning up**

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

#### **Technical Measures/Precautions:**

Use only in area provided with appropriate exhaust ventilation. Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

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

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Protect from light. Sensitive to light. Store in light-resistant containers. Store in a segregated and approved area. Store away from incompatible materials.

**Incompatible Materials:**

Oxidizing agents. Metals. Acids. Bases. isocyanates. nitrides. Acetaldehyde. amides. Formaldehyde. aliphatic amines.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****National occupational exposure limits****United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Phenol 108-95-2	5 ppm TWA 19 mg/m <sup>3</sup> TWA	5 ppm TWA 19 mg/m <sup>3</sup> TWA 15.6 ppm Ceiling 15 min 60 mg/m <sup>3</sup> Ceiling 15 min	5 ppm TWA	None
Water 7732-18-5	None	None	None	None

**Canada**

Components	Alberta	British Columbia	Ontario	Quebec
Phenol 108-95-2	5 ppm TWA 19 mg/m <sup>3</sup> TWA	5 ppm TWA	5 ppm TWA	5 ppm TWAEV 19 mg/m <sup>3</sup> TWAEV
Water 7732-18-5	None	None	None	None

**Australia and Mexico**

Components	Australia	Mexico
Phenol 108-95-2	1 ppm TWA 4 mg/m <sup>3</sup> TWA	5 ppm TWA 19 mg/m <sup>3</sup> TWA 10 ppm STEL 38 mg/m <sup>3</sup> STEL
Water 7732-18-5	None	None

**Appropriate engineering controls****Engineering measures to reduce exposure:**

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Individual protection measures, such as personal protective equipment****Personal Protective Equipment**

**Eye protection:** Face-shield.

**Skin and body protection:** Chemical resistant protective suit. Gloves. Boots.

**Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid.	<b>Appearance:</b> No information available	<b>Color:</b> Colorless. Light pink. Light yellow.
<b>Odor:</b> Aromatic. Acrid. Somewhat sickening sweet.	<b>Taste</b> No information available	<b>Formula:</b> No information available
<b>Molecular/Formula weight:</b> No information available	<b>Flammability:</b> No information available	<b>Flash point (°C):</b> >90.56
<b>Flashpoint (°C/°F):</b> >90.56 °C/>195°F	<b>Flash Point Tested according to:</b> Open cup	<b>Autoignition Temperature (°C/°F):</b> No information available
<b>Lower Explosion Limit (%):</b> No information available	<b>Upper Explosion Limit (%):</b> No information available	<b>pH:</b> No information available
<b>Melting point/range(°C/°F):</b> No information available	<b>Boiling point/range(°C/°F):</b> No information available	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> No information available	<b>Specific gravity:</b> 1.05
<b>Vapor pressure @ 20°C (kPa):</b> No information available	<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available
<b>VOC content (g/L):</b> No information available	<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available
<b>Viscosity:</b> No information available	<b>Miscibility:</b> No information available	<b>Solubility:</b> Soluble in Water

## 10. STABILITY AND REACTIVITY

### **Reactivity**

Contact of phenol with peroxodisulfuric acid may cause explosion  
The combination of phenol with acetaldehyde results in violent condensaton  
The combination of phenol with 1,3-butadiene, and born trifluoride diethyl ether complex results in an intense exothermic reaction  
The combination of phenol with isocyanates results in heat generation and violent polymerization  
The combination of phenol with nitrides results in heat and flammable gas generation  
Violent reaction with aluminum chloride and nitromethane at 110 deg. C.  
Hot phenol reacts with metals  
A combination of phenol with mineral oxidizing acids results in fire  
Violent reaction with phenol and aluminum chloride + nitrobenzene at 120 deg. C.  
Potential for an explosive reacton exists when phenol comes into contact with formaldehyde or sodium nitrate + trifluoroacetic acid  
Mixtures of air and 3-10% phenol are explosive  
Phenol + sodiuim nitrite causes explosion on heating  
When heated, phenol evolves flammable vapors which will form explosive mixtures with air  
Phenol + calcium hypochlorite results in an exothermic reaction producing toxic fumes whic hmay ignite

### **Chemical stability**

**Stability:** Stable under recommended storage conditions

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Exposure to light. Turns pink or red on exposure to light.  
Incompatible materials.

**Incompatible Materials:** Oxidizing agents. Metals. Acids. Bases. isocyanates. nitrides. Acetaldehyde. amides. Formaldehyde. aliphatic amines.

**Hazardous decomposition products:** Carbon monoxide. Carbon dioxide.

**Other Information**

**Corrosivity:** Severe corrosive effect on Brass  
Minor corrosive effect on bronze

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**

Ingestion. Inhalation. Skin.

### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	360mg/kg
ATEmix (dermal)	716mg/kg
ATEmix (inhalation-gas)	795mg/l
ATEmix (inhalation-dust/mist)	0.6mg/l
ATEmix (inhalation-vapor)	0.4mg/l

### **Component Information**

#### *Phenol - 108-95-2*

**LD50/oral/rat** = 317mg/kg  
**LD50/oral/mouse** = 270 mg/kg  
**LD50/dermal/rat** = 525 mg/kg Dermal LD50 Rat  
669 mg/kg  
**LD50/dermal/rabbit** = 630 mg/kg Dermal LD50 Rabbit  
**LC50/inhalation/rat** = 316 mg/m<sup>3</sup>4 h  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

#### *Water - 7732-18-5*

**LD50/oral/rat** = > 90 mL/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rat** = No information available  
**LD50/dermal/rabbit** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

### **Product Information**

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**

VALUE-Acute Tox Dermal = No information available

**LD50/dermal/rat**

VALUE -Acute Tox Dermal = No information available

**LC50/inhalation/rat**

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

**Symptoms****Skin Contact:**

Causes skin burns. Phenol burns may be severe, but painless due to damage to the nerve endings causing numbness. The skin may turn white and opaque or dull gray and wrinkled. Later, it may turn gray-white or yellowish brown and may be deeply eroded and scarred. Black Gangrene may occur at the sight of contact. It may be absorbed through the skin. If absorbed through skin it may cause systemic effects. Toxic in contact with skin. If absorbed through the skin it may affect behavior/central nervous system and cause central nervous system effects. If absorbed through the skin, it may affect the liver and kidneys (nephritis, hematuria) and may induce cardiac arrhythmias.

**Eye Contact:**

Causes eye burns. Corrosive to the eyes and may cause severe damage including blindness.

**Inhalation**

Severely irritating to the upper respiratory tract. It can irritate the lungs. It may cause pulmonary edema. Can cause dyspnea (shortness of breath and difficulty breathing). May affect respiration (respiratory depression). May affect behavior/central nervous system (somnolence). Inhalation of large amounts of vapor may be fatal. Volatility is low at room temperature, but hazard increases as temperature rises. Harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20 deg. C. Inhalation of large quantities can cause system effects similar to that of ingestion.



## **Ingestion**

Harmful if swallowed. Causes digestive or gastrointestinal tract burns. Corrosive to the mouth, throat, and stomach. There is burning pain in the mouth and throat as well as white necrotic lesions in the mouth, esophagus and stomach. Ingestion may cause nausea, vomiting, diarrhea. May cause loss of appetite. May cause abdominal pain. May cause gastrointestinal bleeding. May cause pallor. May cause excessive sweating. May cause hemolytic anemia. May cause metabolic acidosis. May affect the cardiovascular system (hypotension). May cause methemoglobinemia, (the formation of methemoglobin in the blood which causes deficient oxygenation of the blood due to decreased available hemoglobin). Signs and symptoms of methemoglobinemia include shortness of breath, cyanosis (a bluish discoloration of the skin, lips, mucous membranes), mental status changes such as headache, mental impairment, fatigue, muscular weakness, exercise intolerance, lightheadness, dizziness, incoordination, seizures, and loss of consciousness. Arterial blood with elevated methemoglobin levels has a characteristic chocolate-brown color as compared to normal bright red oxygen containing arterial blood. Severe methemoglobinemia is characterized by bradycardia or tachycardia (slow or fast heart beat), dysrhythmias, seizures, coma and death. It may cause central nervous system depression. May affect behavior/central nervous system (convulsions). May affect behavior/central nervous system (tremors). May affect behavior/central nervous system (dizziness, headache). May affect behavior/central nervous system (hallucinations, drowsiness, nervousness, twitching, delirium). May affect respiration (dyspnea - difficulty breathing and shortness of breath). May affect respiration (tachypnea (rapid breathing)). May cause tinnitus. May cause pupillary dilation. May affect eyes (pinpoint pupils). May cause dim vision. May affect urinary system (kidneys). May affect liver .

## **Aspiration hazard**

No information available

## **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

### **Chronic Toxicity**

Prolonged or repeated inhalation may cause bronchitis with coughing, phlegm, and/or shortness of breath  
Prolonged or repeated ingestion may affect the liver, and kidneys  
Prolonged or repeated ingestion may affect the liver (jaundice, liver function tests impaired)  
Prolonged or repeated ingestion may affect the blood (changes in red blood cell count)  
Prolonged or repeated ingestion may affect behavior/central nervous system  
Prolonged or repeated ingestion may affect the cardiovascular system  
Prolonged or repeated ingestion may affect the brain  
Prolonged or repeated inhalation may affect the liver  
Prolonged or repeated inhalation may affect the kidneys  
Prolonged or repeated inhalation may affect the cardiovascular system  
Prolonged or repeated ingestion may affect the blood (anemia)  
Prolonged or repeated inhalation may affect the blood (changes in serum composition)  
Signs and symptoms of chronic inhalation exposure may include headache, cough, weakness, fatigue, anorexia, vomiting, insomnia, nervousness, weight loss, paresthesia, ochronosis, and albuminuria  
Other signs and symptoms of chronic exposure to phenol include vertigo, muscle aches and weakness, dark urine, nephritis, and hepatitis

## **Sensitization:**

No information available

**Mutagenic Effects:** May affect genetic material  
 Animal experiments showed mutagenic effects  
 Mutagenic effects in mammalian somatic cells  
 Experiments with human lymphocytes have shown mutagenic effects  
 Experiments with animal lymphocytes have shown mutagenic effects  
 Mutations in microorganisms

**Carcinogenic effects:** Not considered carcinogenic

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Phenol	Monograph 71 [1999] Monograph 47 [1989]	A4 Not Classifiable as a Human Carcinogen	Not listed	Not listed	Not listed	Not listed
Water	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

**ACGIH (American Conference of Governmental Industrial Hygienists)**

*A4 - Not Classifiable as a Human Carcinogen*

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

*Group 3 - Not classifiable as to its carcinogenicity to humans*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information on reproductive toxicity effects on humans was found  
**Developmental Effects:** There is limited evidence that Phenol may damage the developing fetus in animals  
**Teratogenic Effects:** No information on developmental toxicity effects on humans was found  
 No information available

#### Specific Target Organ Toxicity

**STOT - single exposure** No information available  
**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.  
**Target Organs:** Central nervous system. Cardiovascular system. Heart. Kidneys. Liver. Eyes. Skin. Respiratory system. Lungs. Blood. Methemoglobin formation.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Ecotoxicity effects:** Aquatic environment.

*Phenol - 108-95-2*

**Freshwater Algae Data:** 0.0188 - 0.1044 mg/L EC50 *Pseudokirchneriella subcapitata* 96 h  
 187 - 279 mg/L EC50 *Desmodesmus subspicatus* 72 h  
 46.42 mg/L EC50 *Pseudokirchneriella subcapitata* 96 h

<b>Freshwater Fish Species Data:</b>	11.9 - 25.3 mg/L LC50 Lepomis macrochirus 96 h flow-through 1 11.9 - 50.5 mg/L LC50 Pimephales promelas 96 h flow-through 1 20.5 - 25.6 mg/L LC50 Pimephales promelas 96 h static 1 23.4 - 36.6 mg/L LC50 Oryzias latipes 96 h static 1 33.9 - 43.3 mg/L LC50 Oryzias latipes 96 h flow-through 1 34.09 - 47.64 mg/L LC50 Poecilia reticulata 96 h static 1 4.23 - 7.49 mg/L LC50 Oncorhynchus mykiss 96 h semi-static 1 5.0 - 12.0 mg/L LC50 Oncorhynchus mykiss 96 h 1 5.449 - 6.789 mg/L LC50 Oncorhynchus mykiss 96 h flow-through 1 7.5 - 14 mg/L LC50 Oncorhynchus mykiss 96 h static 1 0.00175 mg/L LC50 Cyprinus carpio 96 h semi-static 1 11.5 mg/L LC50 Lepomis macrochirus 96 h semi-static 1 13.5 mg/L LC50 Lepomis macrochirus 96 h static 1 27.8 mg/L LC50 Brachydanio rerio 96 h 1 31 mg/L LC50 Poecilia reticulata 96 h semi-static 1 32 mg/L LC50 Pimephales promelas 96 h 1
<b>Water Flea Data:</b>	10.2 - 15.5 mg/L EC50 Daphnia magna 48 h 4.24 - 10.7 mg/L EC50 Daphnia magna 48 h
<b>Persistence and degradability:</b>	No information available
<b>Bioaccumulative potential:</b>	No information available
<b>Mobility:</b>	No information available

### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Phenol	None	None	None	U188
Water	None	None	None	None

### 14. TRANSPORT INFORMATION

#### DOT

<b>UN-No:</b>	UN2821
<b>Proper Shipping Name:</b>	Phenol solutions
<b>Hazard Class:</b>	6.1
<b>Subsidiary Risk:</b>	No information available
<b>Packing Group:</b>	II
<b>ERG No:</b>	153
<b>Marine Pollutant</b>	No data available
<b>DOT RQ (lbs):</b>	No information available
<b>Symbol(s):</b>	R4

## 14. TRANSPORT INFORMATION

### TDG (Canada)

UN-No: UN2821  
Proper Shipping Name: Phenol solution  
Hazard Class: 6.1  
Subsidiary Risk: No information available  
Packing Group: II  
Description: No information available

### ADR

UN-No: UN2821  
Proper Shipping Name: Phenol solution  
Hazard Class: 6.1  
Packing Group: II  
Subsidiary Risk: No information available  
Classification Code: No information available  
Description: No information available  
CEFIC Tremcard No: No information available

### IMO / IMDG

UN-No: UN2821  
Proper Shipping Name: Phenol solution  
Hazard Class: 6.1  
Subsidiary Risk: No information available  
Packing Group: II  
Description: No information available  
IMDG Page: No information available  
Marine Pollutant: No information available  
EMS: F-A  
MFA: No information available  
Maximum Quantity: No information available

### RID

UN-No: UN2821  
Proper Shipping Name: Phenol solution  
Hazard Class: 6.1  
Subsidiary Risk: 6.1  
Packing Group: II  
Classification Code: No information available  
Description: No information available

### ICAO

UN-No: UN2821  
Proper Shipping Name: Phenol solution  
Hazard Class: 6.1  
Subsidiary Risk: No information available  
Packing Group: II  
Description: No information available

### IATA

UN-No: UN2821  
Proper Shipping Name: Phenol solution  
Hazard Class: 6.1  
Subsidiary Risk: No information available  
Packing Group: II  
ERG Code: 6L  
Description: No information available

## 15. REGULATORY INFORMATION

### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Phenol</i>	Present	Present KE-28209	Present	Present (3)-481	Present	Present	Present 203-632-7
<i>Water</i>	Present	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2

### U.S. Regulations

#### *Phenol*

**Massachusetts RTK:** Present

**New Jersey RTK Hazardous Substance List:** 1487

**New Jersey (EHS) List:** 1487 500 lb TPQ

**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present

**Pennsylvania RTK:** Environmental hazard

**Pennsylvania RTK - Environmental Hazard List** Present

**Minnesota - Hazardous Substance List:** Present

**New York Release Reporting - List of Hazardous Substances:**

1000 lb RQ

1 lb RQ

**Louisiana Reportable Quantity List for Pollutants:** 1000lbfinal RQ

454kgfinal RQ

**California Directors List of Hazardous Substances:** Present

**FDA - 21 CFR - Total Food Additives** 175.105 175.300 175.380 175.390 176.170 177.1210 177.1580 177.2410 177.2600

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### **Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### **Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Phenol</i>	Not Listed	Not Listed	Not Listed	Not Listed
<i>Water</i>	Not Listed	Not Listed	Not Listed	Not Listed

### CERCLA/SARA

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
<i>Phenol</i>	1000 lb final RQ 454 kg final RQ	1000 lb EPCRA RQ	None	None	1.0 % de minimis concentration
<i>Water</i>	None	None	None	None	None

### U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
<i>Phenol</i>	Not Applicable	06/01/1987 06/01/1997
<i>Water</i>	Not Applicable	Not Applicable

### Canada

**WHMIS hazard class:**  
D1A Very toxic materials  
E Corrosive material

**Phenol**

D1A E

**Water**

Uncontrolled product according to WHMIS classification criteria

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Phenol	1 %

**Inventory**

Components	Canada (DSL)	Canada (NDSL)
Phenol	Present	Not Listed
Water	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Phenol	Not listed	Not listed
Water	Not listed	Not listed

**EU Classification**

**R-phrases)**

R34 - Causes burns.

R68 - Possible risk of irreversible effects.

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

R48/20/21/22 - Also harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed

**S -phrase(s)**

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 - After contact with skin, wash immediately with plenty of water

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 1/2 - Keep locked up and out of the reach of children.

S24/25 - Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	Classification	Concentration Limits:	Safety Phrases
Phenol	T; R23/24/25 C; R34 Xn; R48/20/21/22 Muta.Cat.3; R68	10%≤C: T; R:23/24/25 3%≤C<10%: Xn; R:20/21/22 3%≤C: C; R:34 1%≤C<3%: Xi; R:36/38	S1/2 S24/25 S26 S28 S36/37/39 S45
Water		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

T - Toxic

C - Corrosive.

Xn - Harmful.

**16. OTHER INFORMATION**

**Preparation Date:** 11/08/2013  
**Revision Date:** 1/29/2016  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**