



# **SAFETY DATA SHEET**

Preparation Date: 2/26/2014 Revision date 11/5/2018 Revision Number: G3

## 1. IDENTIFICATION

**Product identifier** 

Product code: P1592

Product Name: Liquified Phenol

Other means of identification

Synonyms: Carbolic 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:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

## 2. HAZARDS IDENTIFICATION

### Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

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 1 Sub-category B		
Serious eye damage/eye irritation	Category 1		
Germ cell mutagenicity	Category 2		
Specific target organ toxicity (repeated exposure)	Category 2		

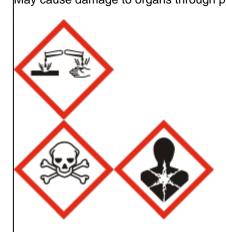
# Label elements

Danger

Hazard statements
Harmful if swallowed

Product code: P1592 Product name: Liquified Phenol Page 1/16

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 Wear protective gloves/protective clothing/eye protection/face protection

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

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Wear respiratory protection

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or physician

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 physician.

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

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.

IF SWALLOWED: Call a POISON CENTER or 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 and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Product code: P1592 Product name: Liquified Phenol Page 2 / 16

## 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222. 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 (CO2). Water spray mist or

foam. Alcohol-resistant foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Product code: P1592 Product name: Liquified Phenol Page 3 / 16

Hazardous combustion products Carbon Monoxide, Carbon Dioxide.

Specific hazards Combustible material. May be ignited by heat, sparks or

flames. Containers may explode when heated. Contact with metals may evolve flammable hydrogen gas.

**Special Protective Actions for Firefighters** 

Specific Methods: No information available

**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: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. 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. Remove all 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

Product code: P1592 Product name: Liquified Phenol Page 4 / 16

Metals
Acids
Bases
isocyanates
nitrides
Acetaldehyde
amides
Formaldehyde
aliphatic amines

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

## National occupational exposure limits

# **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Phenol	108-95-2	5 ppm TWA 19 mg/m³ TWA	5 ppm TWA 19 mg/m³ TWA 15.6 ppm Ceiling 15 min 60 mg/m³ Ceiling 15 min	5 ppm TWA	None
Water	7732-18-5	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Phenol	108-95-2	5 ppm TWA 19 mg/m³ TWA	5 ppm TWA	None	5 ppm TWAEV 19 mg/m³ TWAEV
Water	7732-18-5	None	None	None	None

# **Australia and Mexico**

Component	CAS No	Australia	Mexico
Phenol	108-95-2	1 ppm TWA 4 mg/m³ TWA	5 ppm TWA 19 mg/m³ TWA 10 ppm STEL 38 mg/m³ 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 apron

Long sleeved clothing

Gloves

If working with large quantities:

Product code: P1592 Product name: Liquified Phenol Page 5 / 16

Chemical resistant protective suit

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

Physical state: Appearance: Color:

Liquid No information available. Colorless. Light pink. Light yellow.

Odor: Taste Formula

Aromatic. Acrid. Somewhat sickening No information available. No information available

sweet.

Molecular/Formula weight (g/mole): Flammability (solid, gas)

No information available

Flammability (solid, gas)

Flashpoint (°C/°F):

>90.56 °C/>195°F

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Open cup No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

No information available No information available No information available

Specific gravity: pH Vapor pressure @ 20°C (kPa):

1.05 No information available No information available

Evaporation rate: Vapor density: VOC content (g/L):

No information available 
No information available 
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility: 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 which may ignite

Product code: P1592 Product name: Liquified Phenol Page 6 / 16

**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.

Oxidizing agents Incompatible Materials:

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

**Component Information** 

Phenol CAS No 108-95-2

LD50/oral/rat = 340 mg/kg Oral LD50 Rat; 317 mg/kg Oral LD50 Rat

LD50/oral/mouse = 270 mg/kg

LD50/dermal/rabbit = 630 mg/kg Dermal LD50 Rabbit

LD50/dermal/rat = 669 mg/kg; 525 mg/kgLC50/inhalation/rat = 316 mg/m<sup>3</sup> 4 h

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Water CAS No 7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat

Product code: P1592 Product name: Liquified Phenol Page 7/16 LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = 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 = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

Value - Acute Tox = 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

Product code: P1592 Product name: Liquified Phenol Page 8 / 16

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, lightheadedness, 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 tachydardia (slow or fast heart beat), dysrhythmias, seizures, coma and death. It may cause central nervous system depression. May affect behavior/central nervous system (convulsions/seizures). May affect behavior/central nervous system (tremors, muscle twitiching). 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.

Component	CAS No	IARC	ACGIH -	NTP	OSHA HCS -	Australia -	Australia -
			Carcinogens		Carcinogens	Notifiable	Prohibited

Product code: P1592 Product name: Liquified Phenol Page 9 / 16

						Carcinogenic Substances	Carcinogenic Substances
Phenol		Classifiable - Monograph 71	Classifiable as	Not listed	Not listed	Not listed	Not listed
Water	7732-18-5	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

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

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

No information on developmental toxicity effects on humans was found

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure

STOT - repeated exposure Target Organs:

No information available.

May cause damage to organs through prolonged or repeated exposure. 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

Algae/aquatic plants 46.42 mg/L EC50 Pseudokirchneriella subcapitata 96 h 0.0188 - 0.1044 mg/L

EC50 Pseudokirchneriella subcapitata 96 h 187 - 279 mg/L EC50 Desmodesmus

subspicatus 72 h

Fish 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 32 mg/L LC50 Pimephales promelas 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 4.23 - 7.49 mg/L LC50 Oncorhynchus mykiss 96 h semi-static 1 11.9 - 25.3 mg/L LC50 Lepomis macrochirus 96 h flow-through 1 11.5 mg/L LC50 Lepomis macrochirus 96 h semi-static 1 34.09 - 47.64 mg/L LC50 Poecilia reticulata 96 h static 1 31 mg/L LC50 Poecilia reticulata 96 h semi-static 1 27.8 mg/L LC50 Brachydanio rerio 96 h 1 0.00175 mg/L LC50 Cyprinus carpio 96 h semi-static 1 33.9 - 43.3 mg/L LC50 Oryzias latipes 96 h flow-through 1 23.4 - 36.6 mg/L LC50 Oryzias latipes 96 h static 1 5.0 - 12.0 mg/L LC50 Oncorhynchus mykiss 96 h 1 13.5 mg/L LC50

Lepomis macrochirus 96 h static 1

**Crustacea** 4.24 - 10.7 mg/L EC50 Daphnia magna 48 h 10.2 - 15.5 mg/L EC50 Daphnia

magna 48 h

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soil No information available

Product code: P1592 Product name: Liquified Phenol Page 10 / 16

Other adverse effects

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

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Phenol	108-95-2	None	None	None	U188
Water	7732-18-5	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

**UN-No:** UN2821

Proper Shipping Name: Phenol solutions

Hazard Class 6.1

Subsidiary Class No information available

Packing group: II Emergency Response Guide 153

Number

Marine Pollutant No data available DOT RQ (lbs): No information available

Special Provisions IB2, T7, TP2

Symbol(s): [DOT]: (R4) - Identifies a material that is a hazardous substance that has a

reportable quantity (RQ) of 1000 pounds (454 Kilograms).

**Description:** UN2821, Phenol solutions, 6.1, II

TDG (Canada)

**UN-No:** UN2821

Proper Shipping Name: Phenol solution

Hazard Class 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

**Description:** UN2821, Phenol solution, 6.1, II

ADR

UN Number UN2821

**Proper Shipping Name:** Phenol solution

Transport hazard class(es) 6.1 Packing group

Subsidiary Risk: No information available

**Description:** UN2821, Phenol solution, 6.1, II

**IMDG** 

**UN-No:** UN2821

Proper Shipping Name: Phenol solutions

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Product code: P1592 Product name: Liquified Phenol Page 11 / 16

Marine Pollutant No information available

EMS: F-A

**Description** UN2821, Phenol solution, 6.1, II

**RID** 

UN Number UN2821
Proper Shipping Name: Phenol solution

Transport hazard class(es) 6.1
Subsidiary Risk: 6.1
Packing group

**Description:** UN2821, Phenol solution, 6.1, II

ICAO (air)

UN-No: UN2821
Proper Shipping Name: Phenol solution

Hazard Class 6.1

Subsidiary Risk: No information available

Packing Group:

**Description:** UN2821, Phenol solution, 6.1, II

Special Provisions A3

**IATA** 

UN Number UN2821
Proper Shipping Name: Phenol solution

Transport hazard class(es) 6.1

Subsidiary Risk: No information available

Packing group II Precautionary Statements - 6L

Response

Special Provisions No information available

**Description:** UN2821, Phenol solution, 6.1, II

#### 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Phenol	108-95-2	PresentACTIV E	Present KE-28209	Present	Present (3)-481	Present	Present	Present 203-632-7
Water	7732-18-5	PresentACTIV E	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

Louisana 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

- List Sourced from EAFUS

Product code: P1592 Product name: Liquified Phenol Page 12 / 16

#### 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)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Phenol	108-95-2	Not Listed	Not Listed	Not Listed	Not Listed
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

Component	CAS No	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 de minimis
Phenol	108-95-2	1000 lb final RQ 454 kg final RQ	1000 lb EPCRA RQ	None		1.0 % de minimis concentration
Water	7732-18-5	None	None	None	None	None

#### **U.S. TSCA**

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Phenol	108-95-2	Not Applicable	Not Applicable
Water	7732-18-5	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Phenol

108-95-2 (88-91)

WHMIS 2015 Hazard Classification

Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Acute toxicity - Dermal - Category 3: H311 Toxic in contact with skin.; Acute toxicity - Inhalation - Category 1: H330 Fatal if inhaled.; Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.; Specific target organ toxicity - Single exposure - Category 1: H370 Causes damage to organs.; Specific target organ toxicity - Repeated exposure -Category 2: H373 May cause damage to organs through prolonged or repeated exposure.

Not a dangerous product according to HPR classification criteria

7732-18-5 (9-12)

Water

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### **DSL/NDSL**

Product code: P1592 Product name: Liquified Phenol Page 13 / 16

Component	CAS No	Canada (DSL)	Canada (NDSL)
Phenol	108-95-2	Present	Not Listed
Water	7732-18-5	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances	
Phenol	108-95-2	Not listed	
Water	7732-18-5	Not listed	
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject	
		to Mandatory Reporting	
Phenol	108-95-2	Not listed	
Water	7732-18-5	Not listed	

# **EU Classification**

# EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Phenol	108-95-2	Acute toxicity - Oral - Acute Tox. 3:
		H301 Toxic if swallowed. (Minimum
		classification); Acute toxicity - Dermal -
		Acute Tox. 3: H311 Toxic in contact
		with skin. (Minimum classification);
		Acute toxicity - Inhalation - Acute Tox.
		3: H331 Toxic if inhaled. (Minimum
		classification); Skin corrosion/irritation
		- Skin Corr. 1B: H314 Causes severe
		skin burns and eye damage. (C >= 3
		%; Concentration limits for acute
		toxicity cannot be translated into GHS
		from the DSD especially when
		minimum classifications are given);
		Germ cell mutagenicity - Muta. 2:
		H341 Suspected of causing genetic
		defects.; Specific target organ toxicity -
		Repeated exposure - STOT RE 2:
		H373 May cause damage to organs
		through prolonged or repeated
		exposure. (Minimum classification; No
		information to prove exclusion of
		certain routes of
		exposure)604-001-00-2
		Skin corrosion/irritation - Skin Corr.
		1B: H314 Causes severe skin burns
		and eye damage. (C >= 3 %;
		Concentration limits for acute toxicity
		cannot be translated into GHS from
		the DSD especially when minimum
		classifications are given); Skin
		corrosion/irritation - Skin Irrit. 2: H315
		Causes skin irritation. (1 % <= C <3 %)
		Concentration limits for acute toxicity
		cannot be translated into GHS from
		the DSD especially when minimum
		classifications are given); Serious Eye
		Damage/Eye Irritation - Eye Irrit. 2:
		H319 Causes serious eye irritation. (1
		% <= C <3 %; Concentration limits for
		acute toxicity cannot be translated into
		GHS from the DSD especially when
		minimum classifications are
		given)604-001-00-2
Water	7732-18-5	

EU - CLP (1272/2008)

Product code: P1592 Product name: Liquified Phenol Page 14 / 16

### R-phrase(s)

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

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Phenol	108-95-2	T; R23/24/25 C; R34 Xn; R48/20/21/22 Muta.Cat.3; R68	10%<=C T; R23/24/25 3%<=C<10% Xn; R20/21/22 3%<=C C; R34 1%<=C<3% Xi; R36/38	S: (1/2)-24/25-26-28-36/3 7/39
Water	7732-18-5		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: 2/26/2014
Revision date 11/5/2018
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

Product code: P1592 Product name: Liquified Phenol Page 15 / 16

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** 

Product code: P1592 Product name: Liquified Phenol Page 16 / 16