

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

(C. 1. D)

# **1.1** Product identifiers

1.2

1.3

1.4

2.1

Product name	Liqueñed Phenoi		
CAS number	See section 3 for composition		
Synonyms	Carbolic acid; Hydroxybenzene; Phenylic acid		
Relevant identified u	ses of the substance or mixture and uses advised against		
Identified uses	Laboratory chemicals		
Details of the supplier of the safety data sheet			
Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.		
Telephone Fax	512-668-9918 512-886-4008		
Emergency telephone			
Emergency Phone #	US & Canada: 1-800-535-5053 INFOTRAC International 1-352-323-3500 INFOTRAC		
	SECTION 2: Hazards identification		

# Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4) Corrosive to metals (Category 1) Acute oral toxicity (Category 3) Acute dermal toxicity (Category 3) Skin corrosion/irritation (Category 1) Serious eye damage/eye irritation (Category 1) Germ cell mutagenicity (Category 2) Specific target organ toxicity (single exposure) (Category 3) Respiratory system, Central nervous system Specific target organ toxicity (repeated exposure) (Category 2) Liver, Kidney, Blood

# 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Combustible liquid May be corrosive to metals Toxic if swallowed Toxic in contact with skin Toxic if inhaled Causes severe skin burns and eye damage Suspected of causing genetic defects May cause respiratory irritation May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure

# 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 throroughly 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
	Keep away from heat/sparks/open flames/hot surfaces. No smoking
	Keep cool
Response	Immediately call a POISON CENTER or doctor/physician
Inhalation Skin	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for Wash contaminated clothing before reuse
	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower
Eyes	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing
Ingestion	Rinse mouth
	Do NOT induce vomiting
Fire	In case of fire: Use CO2, dry chemical, or foam for extinction
Storage	Store locked up
	Store in a well-ventilated place. Keep container tightly closed
Disposal	Dispose of contents/container to an approved waste disposal plant

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified

# **SECTION 3: Composition/information on ingredients**

# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Phenol	Carbolic acid; hydroxybenzene	108-95-2	90%
Water	-	7732-18-5	10%

# **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

# General advice

If inhaled	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to- mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
If swallowed	Do not induce vomiting. Call a physician or poison control center immediately.

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

Breathing difficulties. Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

# **4.3 Indication of any immediate medical attention and special treatment needed** No information available

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray. Unsuitable extinguishing media No information available

# 5.2 Specific hazards arising from the substance or mixture

Combustible material. Risk of ignition. Containers may explode when heated.

# 5.3 Special protective equipment and precautions for firefighters

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

# 5.4 Further information

**Flash Point** 79.4 °C / 174.9 °F

Autoignition Temperature 715 °C / 1319 °F

# **Explosion limits**

Upper8.6 vol %Lower1.8 vol %Sensitivity to Mechanical ImpactSensitivity to Static Discharge

No information available No information available

NFPA

Health	Flammability	Instability	Physical hazards
4	2	0	N/A

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharges.

# 6.2 Environmental precautions

Avoid release to the environment. See section 12 for additional ecological information . Do not flush into surface water or sanitary sewer system.

# 6.3 Methods and materials for containment and cleaning up

Remove all sources of ignition. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Use spark-proof tools and explosion-proof equipment.

# 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Precautions on safe handling

Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharges.

# **Hygiene measures**

No information available

# 7.2 Conditions for safe storage, including any incompatibilities

## **Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Protect from moisture. Protect from light. Corrosives area.

# Incompatibilities

No information available

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

# 8.1 Occupational exposure limits

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Va	lue
Phenol	TWA	5 ppm	19 mg/m3

# US. ACGIH Threshold Limit Values

Component	Туре	Value
Phenol	TWA	5 ppm

# **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Туре	Val	ue
	IDLH	250	opm
Phenol	TWA	5 ppm	19 mg/m3
	Ceiling	15.6 ppm	60 mg/m3

# 8.2 Exposure controls

# Appropriate engineering controls

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

# Personal protective equipment

# **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

# Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure

# **Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

# Control of environmental exposure

No information available

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

# 9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Sweet
Odor Threshold	No information available
рН	6
Melting Point/Range	42.8 °C / 109 °F
Boiling Point/Range	182 °C / 359.6 °F
Evaporation Rate	< 0.01 (Butyl Acetate = 1.0)
Flammability (solid)	Not applicable
Flammability or explosive limit	
Upper	8.6 vol %
Lower	1.8 vol %
Vapor Pressure	.35 mmHg @ 25 C
Vapor Density	3.2
Density	1.0576
Solubility	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temp	715 °C / 1319 °F
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	C6 H5 OH
Molecular Weight	94.1
VOC Content(%)	No information available
Oxidizing properties	No information available

# 9.2 Other safety information

No information available

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

None known, based on information available

# 10.2 Chemical stability

Hygroscopic. Light sensitive

**10.3 Possibility of hazardous reactions** None under normal processing

# 10.4 Conditions to avoid

Incompatible products. Heat, flames, and sparks. Exposure to moisture. Exposure to light. Keep

# **10.5** Incompatible materials

Acids, bases, strong oxidizing agents, halogens, lead, metals

# **10.6 Hazardous decomposition products**

Carbon monoxide (CO), Carbon dioxide (CO2)

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

## **Product Information, Component Information**

### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenol	340 mg/kg	630 mg/kg	316 mg/m3 - 4h

# Skin corrosion/irritation

Causes burns by all exposure routes

# Serious eye damage/eye irritation

Causes burns by all exposure routes

### Respiratory or skin sensitization

No information available

# Germ cell mutagenicity

Possible risk of irreversible effects

# Carcinogenicity

IARC: Group 1 - Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

**Specific target organ toxicity - single exposure** Respiratory system, Central nervous system

# Specific target organ toxicity - repeated exposure

Liver, Kidney, Blood

# Reproductive toxicity

Experiments have shown reproductive toxicity effects on laboratory animals.

# **Chronic effects**

No information available

# 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product		Species	Test Results
	EC50	Freshwater Algae	0.0188 mg/L
	EC50	Freshwater Algae	46.42 mg/L - 96h
	EC50	Freshwater Algae	187-279 mg/L - 72h
	LC50	Freshwater Fish	4-7 mg/L - 96h
Phenol	LC50	Freshwater Fish	32 mg/L - 96h
	EC50	Microtox	21-36 mg/L - 30 min
	EC50	Microtox	23.38 mg/L - 5 min
	EC50	Microtox	25.61 mg/L - 15 min
	EC50	Microtox	28.8 mg/L - 5 min
	EC50	Microtox	31.6 mg/L - 15 min
	EC50	Water Flea	10.2-15.5 mg/L - 48h
	EC50	Water Flea	4.24-10.7 mg/L - 48h

# 12.2 Persistence and degradability

May persist based on information available

# 12.3 Bio accumulative potential

No information available

# 12.4 Mobility in soil

Is not likely mobile in the environment due to its low water solubility

# **12.5 Results of PBT and vPvB assessment** No information available

# **12.6 Endocrine disrupting properties** No information available

# 12.7 Other adverse effects

The toxicological properties have notbeen fully investigated.

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

# DOT (US)

UN-no. UN2821 Proper Shipping Name PHENOL SOLUTIONS Hazard Class 6.1 Packing Group П

# IMDG

UN-no.	UN2821
Proper Shipping Name	PHENOL SOLUTIONS
Hazard Class	6.1
Packing Group	11

# IATA

UN-no.	UN2821
Proper Shipping Name	PHENOL SOLUTIONS
Hazard Class	6.1
Packing Group	II

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

> TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not applicable

CERCLA Hazardous Substance List (40 CFR 302.4) Listed - RQ: 1000 lb

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not applicable

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See section 2 for more information

SARA 313 (TRI reporting)

Listed - Threshold values %: 1.0

Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Listed

Safe Drinking Water Act

Listed - RQ: 1000 lb

**US state regulations** 

US. Massachusetts RTK - Substance List Listed

# US. New Jersey Worker and Community Right-to-Know Act Listed

# US. Pennsylvania Worker and Community Right-to-Know Law Listed

California Proposition 65 Not listed

# **SECTION 16: Other information**

Issue date: 12/21/2010 Revision 1: 03/03/2019 Revision 2: 07/17/2024

# **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.