



Material Safety Data Sheet

Phenol, 5%

Section 1 - Chemical Product and Company Identification

MSDS Name:

Phenol, 5%

Catalog Numbers:

LC18195

Synonyms:**Company Identification:**

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	Balance
108-95-2	Phenol	5.0

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: No information found.

Caution! May be harmful if swallowed. May cause severe eye and skin irritation with possible burns. May cause severe respiratory and digestive tract irritation with possible burns. Eye contact may result in permanent eye damage. May cause central nervous system effects. May be absorbed through the skin. May cause liver and kidney damage. May cause reproductive and fetal effects. The toxicological properties of this material have not been fully investigated.

Target Organs: Kidneys, central nervous system, liver.

Potential Health Effects

Eye:

Contact with eyes may cause severe irritation, and possible eye burns. Vapor or mist may cause irritation and severe burns. Contact may cause severe eye irritation and possible eye damage.



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Skin:

May be absorbed through the skin. If absorbed, causes symptoms similar to those of ingestion. May be harmful if absorbed through the skin. May cause severe skin irritation and burns. Phenol solutions may be absorbed through the skin rapidly to produce systemic poisoning and possible death.

Ingestion:

Symptoms may include: headache, excitement, fatigue, nausea, vomiting, stupor, and coma. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns. May cause liver and kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. May be harmful if swallowed.

Inhalation:

May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation. May also cause pallor, loss of appetite, nausea, vomiting, diarrhea, weakness, darkened urine, headache, sweating, convulsions, cyanosis, unconsciousness,

Chronic:

Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. May cause liver and kidney damage. May cause fetal effects. Repeated skin contact may cause dermatitis with dark pigmentation of the skin.

Section 4 - First Aid Measures

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until chemical is gone. Get medical aid at once.

Skin:

Get medical aid at once. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing to reduce further exposure. Destroy contaminated shoes.

Ingestion:

Do NOT induce vomiting. Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid at once.

Inhalation:

Get medical aid at once. Move victim to fresh air immediately. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Use water spray to keep fire-exposed containers cool.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.



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Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS # 108-95-2 health-4; flammability-2; reactivity-0

Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Phenol	5 ppm TWA; skin - potential for cutaneous absorption	5 ppm TWA; 19 mg/m ³ TWA	5 ppm TWA; 19 mg/m ³ TWA; prevent or reduce skin absorption;

OSHA Vacated PELs

Phenol: 5 ppm TWA; 19 mg/m³ TWA

Personal Protective Equipment**Eyes:**

Wear appropriate protective eye glasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.



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Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: No information found.

Odor: No information found.

pH: No information found.

Vapor Pressure: No information found.

Vapor Density: No information found.

Evaporation Rate: No information found.

Viscosity: No information found.

Boiling Point: No information found.

Freezing/Melting Point: No information found.

Decomposition Temperature: No information found.

Solubility in water: No information found.

Specific Gravity/Density: No information found.

Molecular Formula: No information found.

Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Temperatures above recommended temperatures.

Incompatibilities with Other Materials

Phenol is incompatible with strong oxidizing agents, alkalis, nitric acid, calcium hypochlorite, and halogens. Mixture with nitrobenzene and aluminum chloride may violently explode. Coagulates colodion and proteins. Hot liquid phenol will attack aluminum, magnesium, lead, and zinc metals. Mixtures with nitrobenzene and aluminum chloride may violently explode.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide.

Hazardous Polymerization

Has not been reported.



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Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 108-95-2: SJ3325000.

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 108-95-2:

Inhalation, mouse: LC50 = 177 mg/m³

Inhalation, rat: LC50 = 316 mg/m³

Oral, mouse: LD50 = 270 mg/kg

Oral, rat: LD50 = 317 mg/kg

Skin, rabbit: LD50 = 850 mg/kg

Skin, rat: LD50 = 669 mg/kg.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 108-95-2

ACGIH: A4 - Not Classifiable as a Human Carcinogen

California: Not listed.

NIOSH: Not listed.

NTP: Not listed.

OSHA: Not listed.

IARC: Group 3

Epidemiology:

The IARC has determined that there is inadequate evidence for carcinogenicity of phenol in humans and experimental animals.

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

Ecotoxicity:

No data

Environmental:

Will not be expected to significantly bioconcentrate in aquatic organisms.

Physical:

In water, phenol will not be expected to significantly hydrolyze.

Other:

No data



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Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 108-95-2 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

CAS# 108-95-2: final RQ = 1000 pounds (454 kg)

CERCLA/SARA Section 313

This material contains Phenol (CAS# 108-95-2, 5.0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

Phenol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 108-95-2 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 108-95-2 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: February 2, 1999



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