



Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation Phenol Standard, 1000 ppm C₆H₅OH (0.100% (w/w))

Product Number 5740

Other Identifying Product Numbers 5740-16, 5740-32, 5740-4

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

1.3. Details of the Supplier of the Safety Data Sheet

Company Ricca Chemical Company

Address 412 West Fork Drive

Arlington, TX 76012 USA

Telephone 888-467-4222

1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300

CHEMTREC (International) 1+ 703-527-3887

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SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture

This product is not categorized as hazardous in any GHS hazard class.

2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.

Hazard Statements: None Required.

Precautionary Statements: None Required.

2.3. Hazards not Otherwise Classified

No other hazards identified.

2.4. Ingredients of Unknown Acute Toxicity

This product does not contain any ingredients of unknown acute toxicity.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Mixture

Chemical Name (IUPAC)	Common Name and Synonyms	CAS Number	Weight%
water	Water	7732-18-5	99.90
hydroxybenzene	Phenol; carboic acid	108-95-2	0.10

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SECTION 4: First-Aid Measures

4.1. Description of Necessary Measures

Eye Contact: Effects expected to be less severe than exposure to higher concentrations of phenol where symptoms may include eye burns with redness, pain, blurred vision, and possible damage and blindness.

Ingestion: Dilute with water or milk. Call a physician if necessary.

Inhalation: Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: May cause slight irritation.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Does not present any significant health hazards at this low concentration. May irritate eyes and skin upon contact. May be harmful if swallowed or absorbed through skin. Wash areas of contact with plenty of water. **EYE CONTACT:** Effects expected to be less severe than exposure to higher concentrations of phenol where symptoms may include eye burns with redness, pain, blurred vision, and possible damage and blindness. **SKIN CONTACT:** May cause slight irritation.

4.3. Immediate Medical Attention or Special Treatment Needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Call a physician if necessary.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment and Precautions for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate PPE for the size and nature of the spill. As a general rule, wear safety glasses and gloves.

6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material and dispose of in accordance with local regulations.

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SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

SECTION 8: Exposure Controls / Personal Protection

8.1. Exposure Limits

U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)

Chemical Name	CAS Number	Exposure Limit
Phenol	108-95-2	5 ppm TWA; 19 mg/m ³ TWA

U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits

No limits found.

U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)

No limits found.

U.S. OSHA - Specifically Regulated Chemicals

No limits found.

ACGIH - Threshold Limit Values - Ceilings (TLV-C)

No limits found.

ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

No limits found.

ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

Chemical Name	CAS Number	Exposure Limit
Phenol	108-95-2	5 ppm TWA

8.2. Engineering Controls

No specific controls are needed. Normal room ventilation is adequate.

8.3. Individual Protective Measures and Personal Protective Equipment

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

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SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Physical State:	liquid
Color:	Colorless
Odor:	odorless to slight distinctive phenolic
Odor Threshold:	0.1-1 ppm
Melting/Freezing Point:	Approximately 0°C
Boiling Point/Range:	Approximately 100°C
Flammability:	Data not available.
Flammability/Explosive Limits:	1.36% (Phenol) - 10% (Phenol)
Flash Point:	Not flammable
Auto-Ignition Temperature:	715°C (Phenol)
Decomposition Temperature:	Data not available.
pH:	approximately 6
Kinematic Viscosity:	Data not available.
Solubility:	miscible
Vapor Pressure:	0.047 kPa (Phenol)
Evaporation Rate:	Data not available.
Relative Density:	1.01
Relative Vapor Density:	3.2 (Phenol, air = 1)
Particle Characteristics:	Data not available.
Partition Coefficient n-octanol/water, log	Data not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Strong oxidizers, calcium hypochlorite.

10.4. Hazardous Decomposition Products

Will not occur.

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SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not acutely toxic.

Chemical Name	CAS Number	Toxicity
Phenol	108-95-2	Oral LD50 Acute Toxicity Estimate 100 mg/kg (Source: ECHA)

Acute Toxicity - Dermal Exposure:

Not acutely toxic.

Chemical Name	CAS Number	Toxicity
Phenol	108-95-2	Dermal LD50 Rabbit 630 mg/kg (Source: NLM_CIP)

Acute Toxicity - Inhalation Exposure:

Inhalation acute toxicity estimate (ATE, vapor): 50.0000 mg/L, 4 h(calculated)

Chemical Name	CAS Number	Toxicity
Phenol	108-95-2	Inhalation LC50 Acute Toxicity Estimate 0.05 mg/L 4h (Source: Canada_WHMIS)

11.2 Carcinogenicity:

International Agency for Research on Cancer (IARC)

Chemical Name	CAS Number	Classification
Phenol	108-95-2	Group 3 (Not Classified) - Monograph 71 [1999]; Monograph 47 [1989]

National Toxicology Program (NTP)

Chemical Name	CAS Number	Classification
Phenol	108-95-2	Male Rat - No Evidence; Female Rat - No Evidence; Male Mice - No Evidence; Female Mice - No Evidence (TR-203)

U.S. OSHA specifically regulated carcinogens

Chemical Name	CAS Number	Classification
No data found.		

11.3 Additional Toxicology Information:

Data not available.

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SECTION 12: Ecological Information

12.1. Ecotoxicity

Chemical Name	CAS Number	Species	Exposure	Toxicity
Phenol	108-95-2	Earthworm	Acute	LC100 56 Days Eisenia foetida 6900 mg/kg [soil dry weight] (IUCLID)
Phenol	108-95-2	Freshwater Algae	Acute	EC50 96 h Pseudokirchneriella subcapitata 46.42 mg/L (EPA); EC50 96 h Pseudokirchneriella subcapitata 0.0188 - 0.1044 mg/L [static] (EPA); EC50 72 h Desmodesmus subspicatus 187 - 279 mg/L [static] (EPA)
Phenol	108-95-2	Freshwater Fish	Acute	LC50 96 h Pimephales promelas 11.9 - 50.5 mg/L [flow-through] (EPA); LC50 96 h Pimephales promelas 20.5 - 25.6 mg/L [static] (EPA); LC50 96 h Pimephales promelas 32 mg/L (IUCLID); LC50 96 h Oncorhynchus mykiss 5.449 - 6.789 mg/L [flow-through] (EPA); LC50 96 h Oncorhynchus mykiss 7.5 - 14 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 4.23 - 7.49 mg/L [semi-static] (EPA); LC50 96 h Oncorhynchus mykiss 5.0 - 12.0 mg/L (IUCLID); LC50 96 h Lepomis macrochirus 13.5 mg/L [static] (EPA); LC50 96 h Lepomis macrochirus 11.9 - 25.3 mg/L [flow-through] (EPA); LC50 96 h Lepomis macrochirus 11.5 mg/L [semi-static] (EPA); LC50 96 h Poecilia reticulata 34.09 - 47.64 mg/L [static] (EPA); LC50 96 h Poecilia reticulata 31 mg/L [semi-static] (EPA); LC50 96 h Brachydanio rerio 27.8 mg/L (IUCLID); LC50 96 h Cyprinus carpio 0.00175 mg/L [semi-static] (EPA); LC50 96 h Oryzias latipes 33.9 - 43.3 mg/L [flow-through] (EPA); LC50 96 h Oryzias latipes 23.4 - 36.6 mg/L [static] (EPA)
Phenol	108-95-2	Water Flea	Acute	EC50 48 h Daphnia magna 4.24 - 10.7 mg/L [Static] (EPA); EC50 48 h Daphnia magna 10.2 - 15.5 mg/L (EPA)

12.2. Persistence and Degradability

Data not available.

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12.3. Bioaccumulative Potential

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

SECTION 14: Transportation Information

14.1 Transportation by Land - Department of Transportation (DOT, United States of America)

Not regulated according to DOT regulations.

14.2 Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.



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14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG regulations.

SECTION 15: Regulatory Information

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15.01. Occupational Safety and Health Administration (OSHA) Hazards

Chemical Name	CAS Number	Regulatory Information
		No data found.

15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Chemical Name	CAS Number	RQ	TPQ
Phenol	108-95-2	500 lb lower TPQ; 10000 lb upper TPQ	1000 lb EPCRA RQ

15.03. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Chemical Name	CAS Number	Regulatory Information
Phenol	108-95-2	1000 lb final RQ; 454 kg final RQ

15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

Chemical Name	CAS Number	List	Regulatory Information
Phenol	108-95-2	Emission Reporting	1.0 % de minimis concentration

15.05. Massachusetts Right-to-Know Substance List

Chemical Name	CAS Number	Regulatory Information
Phenol	108-95-2	Extraordinarily hazardous

15.06. Pennsylvania Right-to-Know Hazardous Substances

Chemical Name	CAS Number	Regulatory Information
Phenol	108-95-2	Environmental hazard

15.07. New Jersey Worker and Community Right-to-Know Components

Chemical Name	CAS Number	Regulatory Information
Phenol	108-95-2	sn 1487

15.08. California Proposition 65

Chemical Name	CAS Number	Regulatory Information
		No data found.

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15.09. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Chemical Name	CAS Number	List	Status
Phenol	108-95-2	DSL	Present
Water	7732-18-5	DSL	Present

15.10. United States of America Toxic Substances Control Act (TSCA) List

Chemical Name	CAS Number	Status
Phenol	108-95-2	Present (ACTIVE)
Water	7732-18-5	Present [XU] (ACTIVE)

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Chemical Name	CAS Number	List	Number
Phenol	108-95-2	EINECS	203-632-7
Water	7732-18-5	EINECS	231-791-2

15.12. China - Inventory of Existing chemical Substances (IECSC)

Chemical Name	CAS Number	Status
Phenol	108-95-2	Present [02171]
Water	7732-18-5	Present [32224]

15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

Chemical Name	CAS Number	List	Status
Phenol	108-95-2	Annex 1	Present [KE-28209]
Water	7732-18-5	Annex 1	Present [KE-35400]

15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

Chemical Name	CAS Number	MITI No.
Phenol	108-95-2	(3)-481
Water	7732-18-5	- (listed on Japanese Pharmacopoeia 8th Edition)

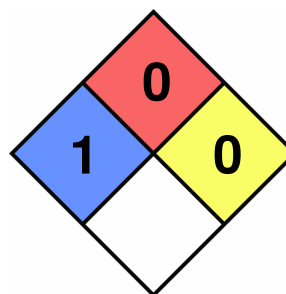
SECTION 16: Other Information

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16.1 National Fire Protection Associate (NFPA) Rating

Health: 1
Flammability: 0
Reactivity 0
Special Hazard:



16.2 Document Revision

Last Revision Date:
2026-05-05

DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.