RICCA CHEMICAL COMPANY®

Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation Sodium Phenate Solution, for Ammonia Nitrogen Analysis

Product Number 7518

Other Identifying Product Numbers 7518-1, 7518-16, 7518-32

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

Hazard Class	Category	Hazard Statements	Precautionary Statements
Acute Toxicity - Oral	Category 4	H302	P264,P270,P301+P312,P330,P501
Acute Toxicity - Inhalation (Vapors)	Category 2	H330	P260,P271,P284,P304+P340,P310, P320,P403+P233,P405,P501
Skin Corrosion / Irritation	Category 1	H314	P260,P264,P280,P301+P330+P331, P303+P361+P353,P363,P304+P340, P310,P321,P305+P351+P338,P405, P501
Serious Eye Damage / Eye Irritation	Category 1	H318	P280,P305+P351+P338,P310
Specific Target Organ Toxicity - Single Exposure	Category 1	H370	P260,P264,P270,P308+P311, P321,P405,P501
Specific Target Organ Toxicity - Repeated Exposure	Category 2	H373	P260,P314,P501

2.2. GHS Label Elements

Pictograms:

Signal Word: **Danger**

Hazard Statements:

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

Hazard Number	Hazard Statement
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H330	Fatal if inhaled
H370	Causes damage to eyes, kidneys, liver
H373	May cause damage to central nervous system through prolonged or repeated exposure

Precautionary Statements:

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

Prevention

Precautionary Number	Precautionary Statement
P260	Do not breathe fumes or mist.
P264	Wash hands, arms, and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves and eye protection.
P284	In case of inadequate ventilation wear respiratory protection.

Response

Precautionary Number	Precautionary Statement
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	If exposed or concerned: Call a poison center or doctor.
P314	Get medical advice or attention if you feel unwell.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.

Storage

Precautionary Number	Precautionary Statement
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Disposal

Precautionary Number	Precautionary Statement
P501	Dispose of contents/container to suitable waste stream in accordance with local, state, federal, and international regulations.

2.3. Hazards not Otherwise Classified

No other hazards identified.

2.4. Ingredients of Unknown Acute Toxicity

2.9 percent of this mixture consists of ingredient(s) of unknown acute toxicity (all routes).

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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	89.04
hydroxybenzene	Phenol; carbolic acid	108-95-2	8.05
sodium hydroxide	Sodium Hydroxide; caustic soda	1310-73-2	2.91

SECTION 4: First-Aid Measures

4.1. Description of Necessary Measures

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation, redness, pain, and tearing.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. May cause irritation, redness, and pain.

4.2. Most Important Symptoms and Effects, Acute and Delayed

May cause damage to central nervous system through prolonged or repeated exposure Mildly corrosive, alkaline solution. A mildly corrosive irritant to skin, eyes, and mucous membranes. The final resulting solution contains < 1% Sodium Phenate, CAS Number 139-02-6 (also known as Sodium Phenoxide). The ingredients used to make this solution are more hazardous than the final resulting solution. Does not present any significant health hazard at this concentration. May be harmful if swallowed. If ingested, dilute with water. Do not induce vomiting. Call a physician if necessary. Wash areas of contact with water for at least 15 minutes. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness, and pain.

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. Do not induce vomiting. 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 protective gloves and eye protection.

6.2. Cleanup and Containment Methods and Materials

Absorb the spill with suitable material. Neutralize with dilute acid solution, then flush to drain with excess water if allowed by local regulations. Always dispose of in accordance with local, state and federal regulations.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Store in a well-ventilated place. Keep container tightly closed. Store locked up. 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/m3 TWA
Sodium Hydroxide	1310-73-2	2 mg/m3 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)

Chemical Name	CAS Number	Exposure Limit
Sodium Hydroxide	1310-73-2	2 mg/m3 Ceiling

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 to light tan
Odor:	Data not available.
Odor Threshold:	Data not available.
Melting/Freezing Point:	Data not available.
Boiling Point/Range:	Approximately 100°C
Flammability:	Data not available.
Flammability/Explosive Limits:	Data not available.
Flash Point:	Not flammable
Auto-Ignition Temperature:	Data not available.
Decomposition Temperature:	Data not available.
pH:	approximately 10.8
Kinematic Viscosity:	Data not available.
Solubility:	miscible
Vapor Pressure:	Data not available.
Evaporation Rate:	Data not available.
Relative Density:	1.1
Relative Vapor Density:	Data not available.
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

Acids.

10.4. Hazardous Decomposition Products

Will not occur.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Oral acute toxicity estimate (ATE): 1242 mg/kg(calculated)

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): 0.6211 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:

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Harmful if swallowed. Causes severe skin burns and eye damage. Fatal if inhaled. Causes damage to eyes, kidneys, liver. May cause damage to central nervous system through prolonged or repeated exposure.

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)
Sodium Hydroxide	1310-73-2	Freshwater Fish	Acute	LC50 96 h Oncorhynchus mykiss 45.4 mg/L [static] (IUCLID)
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.

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)

Sizes: 1 L, 4 L, 500 mL

UN Number: UN3267

Proper Shipping Name: Corrosive Liquid, Basic, Organic, n.o.s. (Sodium Phenate)

Hazard Class: 8

Packing Group: III

Hazard Label(s):

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

Sizes: 1 L, 4 L, 500 mL

UN Number: UN3267

Proper Shipping Name: Corrosive Liquid, Basic, Organic, n.o.s. (Sodium Phenate)

Hazard Class: 8

Packing Group: III

Hazard Label(s):

14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 1 L, 4 L, 500 mL

UN Number: UN3267

Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (sodium phenate)

Hazard Class: 8

Packing Group: III

Hazard Label(s):

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
Sodium Hydroxide	1310-73-2	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
Sodium Hydroxide	1310-73-2	Present

15.06. Pennsylvania Right-to-Know Hazardous Substances

Chemical Name	CAS Number	Regulatory Information
Phenol	108-95-2	Environmental hazard
Sodium Hydroxide	1310-73-2	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
Sodium Hydroxide	1310-73-2	sn 1706

15.08. California Proposition 65

Chemical Name	CAS Number	Regulatory Information
		No data found.

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

Chemical Name	CAS Number	List	Status
Phenol	108-95-2	DSL	Present
Sodium Hydroxide	1310-73-2	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)
Sodium Hydroxide	1310-73-2	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
Sodium Hydroxide	1310-73-2	EINECS	215-185-5
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]
Sodium Hydroxide	1310-73-2	Present [27689]
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]
Sodium Hydroxide	1310-73-2	Annex 1	Present [KE-31487]
Water	7732-18-5	Annex 1	Present [KE-35400]

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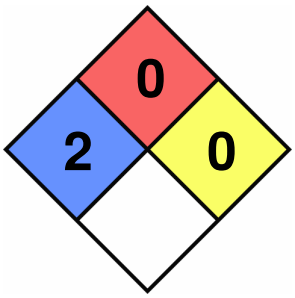
15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

Chemical Name	CAS Number	MITI No.
Phenol	108-95-2	(3)-481
Sodium Hydroxide	1310-73-2	(1)-410
Water	7732-18-5	- (listed on Japanese Pharmacopoeia 8th Edition)

SECTION 16: Other Information

16.1 National Fire Protection Associate (NFPA) Rating

Health: 2
Flammability: 0
Reactivity 0
Special Hazard:



16.2 Document Revision

Last Revision Date:
2026-05-23

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.