

Classified According to OSHA Hazard Communication Standard (HCS)

#### **SECTION 1: Identification**

#### 1.1. Product Identifier

**Trade Name or Designation:** Anion Standard Set, 1000 ppm: F<sup>-</sup>, Cl<sup>-</sup>, Br<sup>-</sup>, NO<sub>2</sub><sup>-</sup>, NO<sub>3</sub><sup>-</sup>, PO<sub>4</sub><sup>3-</sup>, and SO<sub>4</sub><sup>2-</sup>

**Product Number:** 754

Other Identifying Product Numbers: 754-7PK

#### 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: 448 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

#### **SECTION 2: Hazard(s) Identification**

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

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

#### 2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.

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Hazard Statements: None Required.

**Precautionary Statements:** None Required.

#### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

### **SECTION 3: Composition / Information on Ingredients**

#### 3.1. Components of Substance or Mixture

Chemical Name	Formula	<b>Molecular Weight</b>	<b>CAS Number</b>	Weight%
		•		

Exact percentage (concentration) of composition has been withheld as a trade secret.

#### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

**Eye Contact:** No action required to be taken. If necessary, rinse eyes with water. **Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.

**Skin Contact:** No action required to be taken. If necessary, wash areas of contact with water.

**Ingestion:** No action required to be taken. If necessary, dilute with water.

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

May cause mild irritation to areas of contact.

#### 4.3. Medical Attention or Special Treatment Needed

Not expected to require special treatment.

## **SECTION 5: Fire-Fighting Measures**

#### 5.1. Extinguishing Media

Not considered to be a fire or explosion hazard.

#### 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

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### 5.3. Special Protective Equipment for Firefighters

Wear protective clothing and NIOSH-approved 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.

## **SECTION 7: Handling and Storage**

#### 7.1. Precautions for Safe Handling and Storage Conditions

Protect from freezing and physical damage.

#### **SECTION 8: Exposure Controls / Personal Protection**

#### 8.1 Control Parameters

Chemical Name	Limit Type	Country Exposure Limit	Information Source
Data not available.			

#### 8.2. Exposure Controls

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate. **Respiratory Protection:** No specific controls are needed. Normal room ventilation is adequate.

Skin Protection: No specific controls are needed.

Eye Protection: No specific controls are needed.

#### 8.3. Personal Protective Equipment

As a general rule, wear safety glasses and gloves.

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### **SECTION 9: Physical and Chemical Properties**

#### 9.1. Basic Physical and Chemical Properties

Appearance: See individual components.

Physical State: See individual components.

Odor: See individual components.

Odor Threshold: Data not available.

pH: See individual components.

Melting/Freezing Point: Data not available.

Initial Boiling Point/Range: Data not available.

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: Data not available.

**Solubility:** See individual components.

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: 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

Protect from freezing and physical damage.

#### 10.4. Hazardous Decomposition Products

May emit irritating fumes when heated to decomposition.

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### **SECTION 11: Toxicological Information**

#### 11.1. Information on Toxicological Effects

**Acute Toxicity - Oral Exposure:** 

Not applicable.

**Acute Toxicity - Dermal Exposure:** 

Not applicable.

**Acute Toxicity - Inhalation Exposure:** 

Not applicable.

**Acute Toxicity - Other Information:** 

Data not available.

Skin Corrosion and Irritation:

Not applicable.

Serious Eye Damage and Irritation:

Not applicable.

**Respiratory Sensitization:** 

Not applicable.

**Skin Sensitization:** 

Not applicable.

**Germ Cell Mutagenicity:** 

Not applicable.

Carcinogenicity:

Not applicable.

**Reproductive Toxicity:** 

Not applicable.

**Specific Target Organ Toxicity from Single Exposure:** 

Not applicable.

**Specific Target Organ Toxicity from Repeated Exposure:** 

Not applicable.

**Aspiration Hazard:** 

Not applicable.

**Additional Toxicology Information:** 

Data not available.

## **SECTION 12: Ecological Information**

#### 12.1. Ecotoxicity

Not applicable.

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#### 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)

Not regulated according to DOT Regulations.

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

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

## **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards
  Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

  Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Not listed.
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

  Not listed.
- 15.5. Massachusetts Right-to-Know Substance List Not listed.

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# RICCA CHEMICAL COMPANY®

## **Safety Data Sheet**

15.6. Pennsylvania Right-to-Know Hazardous Substances

Not listed.

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

Not listed

15.8. California Proposition 65

Not listed.

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

Not listed.

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

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Not listed.

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

Not listed.

#### **SECTION 16: Other Information**

- 16.1. Full Text of Hazard Statements and Precautionary Statements
- 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

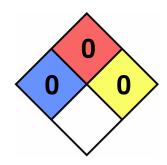
16.3. National Fire Protection Association (NFPA) Rating

**Health:** 0

Flammability: 0

Reactivity: 0

**Special Hazard:** 



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#### 16.4. Document Revision

Last Revision Date: 2024-01-27

### **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.

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Classified According to OSHA Hazard Communication Standard (HCS)

#### **SECTION 1: Identification**

#### 1.1. Product Identifier

**Trade Name or Designation:** Bromide Standard, 1000 ppm Br

**Product Number: 1180** 

Other Identifying Product Numbers: 1180-16, 1180-4, 1180-8

#### 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: 448 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

#### **SECTION 2: Hazard(s) Identification**

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

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

#### 2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.

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Hazard Statements: None Required.

**Precautionary Statements:** None Required.

#### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

### **SECTION 3: Composition / Information on Ingredients**

#### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Number	Weight%
Water	$H_2O$	18.01 g/mol 7732-18-5	99.87
Sodium Bromide	NaBr	102.89 g/mol 7647-15-6	0.13

#### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

**Eye Contact:** May cause irritation, redness, pain, and tearing.

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

**Skin Contact:** May cause slight irritation.

Ingestion: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Does not present any significant health hazards. Wash areas of contact with water. If ingested, dilute with water and call a physician if necessary. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause slight irritation.

#### 4.3. 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. Flush with plenty of 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.

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#### 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

#### 5.3. Special Protective Equipment 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.

### **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 Control Parameters

Chemical Name	Limit Type	Country Exposure Limit	Information Source
Data not available.			

#### 8.2. Exposure Controls

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves. **Eye Protection:** Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

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### **SECTION 9: Physical and Chemical Properties**

#### 9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

**pH:** 6.5 - 8

Melting/Freezing Point: 0.0°C

Initial Boiling Point/Range: 100°C - 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.00

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

**Explosive Properties:** Data not available.

Oxidizing Properties: 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, alkaloidal and heavy metal salts, oxidizers and Bromine Trifluoride.

#### 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 applicable.

**Acute Toxicity - Dermal Exposure:** 

Not applicable.

**Acute Toxicity - Inhalation Exposure:** 

Not applicable.

**Acute Toxicity - Other Information:** 

LD50, Oral, Rat: 3500 mg/kg (Sodium Bromide), details of toxic effects not reported other than lethal dose value.

**Skin Corrosion and Irritation:** 

Not applicable.

Serious Eye Damage and Irritation:

Not applicable.

**Respiratory Sensitization:** 

Not applicable.

Skin Sensitization:

Not applicable.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

**Reproductive Toxicity:** 

Not applicable.

**Specific Target Organ Toxicity from Single Exposure:** 

Not applicable.

**Specific Target Organ Toxicity from Repeated Exposure:** 

Not applicable.

**Aspiration Hazard:** 

Not applicable.

**Additional Toxicology Information:** 

Data not available.

## **SECTION 12: Ecological Information**

#### 12.1. Ecotoxicity

Not applicable.

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#### 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)

Not regulated according to DOT Regulations.

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

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

## **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards
  Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Not listed.
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

  Not listed.
- 15.5. Massachusetts Right-to-Know Substance List Not listed.

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#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6] Water (CAS # 7732-18-5): Present

#### 15.7. New Jersey Worker and Community Right-to-Know Components

Not listed.

#### 15.8. California Proposition 65

Not listed.

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

Sodium Bromide (CAS # 7647-15-6): Present (DSL) Water (CAS # 7732-18-5): Present (DSL)

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

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Sodium Bromide (CAS # 7647-15-6): Present (ACTIVE) Water (CAS # 7732-18-5): Present (ACTIVE)

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

Sodium Bromide (CAS # 7647-15-6): 231-599-9 Water (CAS # 7732-18-5): 231-791-2

#### **SECTION 16: Other Information**

#### 16.1. Full Text of Hazard Statements and Precautionary Statements

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

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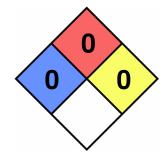


# RICCA CHEMICAL COMPANY®

## **Safety Data Sheet**

### 16.3. National Fire Protection Association (NFPA) Rating

Health: 0
Flammability: 0
Reactivity: 0
Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2024-01-27

#### **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.

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Classified According to OSHA Hazard Communication Standard (HCS)

#### **SECTION 1: Identification**

#### 1.1. Product Identifier

**Trade Name or Designation:** Chloride Standard, 1000 ppm Cl<sup>-</sup> (0.0282 Normal)

**Product Number:** 1955

Other Identifying Product Numbers: 1955-1, 1955-16, 1955-32, 1955-4, 1955-5, 1955-8

#### 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: 448 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

#### **SECTION 2: Hazard(s) Identification**

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

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

#### 2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.

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Hazard Statements: None Required.

**Precautionary Statements:** None Required.

#### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

### **SECTION 3: Composition / Information on Ingredients**

#### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Number	Weight%
Water	$H_2O$	18.01 g/mol 7732-18-5	99.84
Sodium Chloride	NaCl	58.44 g/mol 7647-14-5	0.16

#### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

**Eye Contact:** May cause slight irritation.

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

**Skin Contact:** May cause slight irritation.

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

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

May cause irritation to the eyes and skin. Wash areas of contact with water. Call a physician if irritation develops. Does not present any significant health hazards. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation.

#### 4.3. 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.

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#### 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

#### 5.3. Special Protective Equipment 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 treat as normal refuse. Small amounts of the liquid may be flushed to the drain with excess water. Always dispose of in accordance with local regulations.

### **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 Control Parameters

Chemical Name	Limit Type	Country Exposure Limit	Information Source
Data not available.			

#### 8.2. Exposure Controls

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

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### **SECTION 9: Physical and Chemical Properties**

#### 9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Odorless

Odor Threshold: Data not available.

**pH:** 6.7 - 7.3

Melting/Freezing Point: 0.0°C

Initial Boiling Point/Range: 100°C - 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Not Applicable.

Vapor Density: Data not available.

Relative Density: 1.00

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: 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 oxidizing agents, Lithium, Bromine Trifluoride.

#### 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 applicable.

#### **Acute Toxicity - Dermal Exposure:**

Not applicable.

#### **Acute Toxicity - Inhalation Exposure:**

Not applicable.

#### **Acute Toxicity - Other Information:**

LD50, Oral, Rat: (Sodium Chloride) 3000 mg/kg, details of toxic effects not reported other than lethal dose value. LD50, Dermal, Rabbit: (Sodium Chloride) >10 gm/kg.

#### **Skin Corrosion and Irritation:**

Not applicable.

#### **Serious Eye Damage and Irritation:**

Not applicable.

#### **Respiratory Sensitization:**

Not applicable.

#### Skin Sensitization:

Not applicable.

#### **Germ Cell Mutagenicity:**

Not applicable.

#### Carcinogenicity:

Not applicable.

#### **Reproductive Toxicity:**

Not applicable.

#### **Specific Target Organ Toxicity from Single Exposure:**

Not applicable.

#### **Specific Target Organ Toxicity from Repeated Exposure:**

Not applicable.

#### **Aspiration Hazard:**

Not applicable.

#### **Additional Toxicology Information:**

Data not available.

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## **SECTION 12: Ecological Information**

### 12.1. Ecotoxicity

Not applicable.

#### 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)

Not regulated according to DOT Regulations.

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

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

## **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards
  Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Not listed.
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

  Not listed.
- 15.5. Massachusetts Right-to-Know Substance List Not listed.

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#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6] Water (CAS # 7732-18-5): Present

#### 15.7. New Jersey Worker and Community Right-to-Know Components

Not listed.

#### 15.8. California Proposition 65

Not listed.

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

Sodium Chloride (CAS # 7647-14-5): Present (DSL) Water (CAS # 7732-18-5): Present (DSL)

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

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Sodium Chloride (CAS # 7647-14-5): Present (ACTIVE) Water (CAS # 7732-18-5): Present (ACTIVE)

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

Sodium Chloride (CAS # 7647-14-5): 231-598-3 Water (CAS # 7732-18-5): 231-791-2

#### **SECTION 16: Other Information**

#### 16.1. Full Text of Hazard Statements and Precautionary Statements

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

Product Number: 754 Page 8 of 9

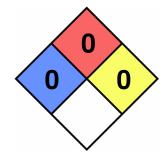


# RICCA CHEMICAL COMPANY®

## **Safety Data Sheet**

### 16.3. National Fire Protection Association (NFPA) Rating

Health: 0
Flammability: 0
Reactivity: 0
Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2024-01-27

#### **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.

Product Number: 754 Page 9 of 9



Classified According to OSHA Hazard Communication Standard (HCS)

#### **SECTION 1: Identification**

#### 1.1. Product Identifier

**Trade Name or Designation:** Fluoride Standard, 1000 ppm F<sup>-</sup>

**Product Number: 3173** 

Other Identifying Product Numbers: 3173-1, 3173-16, 3173-32, 3173-4, 3173-8

#### 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: 448 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

#### **SECTION 2: Hazard(s) Identification**

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

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

#### 2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.

Product Number: 754 Page 1 of 9



Hazard Statements: None Required.

**Precautionary Statements:** None Required.

#### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

### **SECTION 3: Composition / Information on Ingredients**

#### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Number	Weight%
Water	$H_2O$	18.01 g/mol 7732-18-5	99.78
Sodium Fluoride	NaF	41.98 g/mol 7681-49-4	0.22

#### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

**Eye Contact:** May cause slight irritation.

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

**Skin Contact:** May cause slight irritation.

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

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Does not present any significant health hazards. Wash areas of contact with water. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation.

#### 4.3. 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.

Product Number: 754 Page 2 of 9

#### 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

#### 5.3. Special Protective Equipment 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.

### **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 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Sodium Fluoride (7681-49-4)	TLV-TWA	USA	"2.5 mg/m³ TWA (as F)" As	ACGIH - Threshold Limit Values - Time
			Fluorides [RR-02792-9]	Weighted Averages (TLV-TWA)
Sodium Fluoride (7681-49-4)	TWA	USA	"2.5 mg/m³ TWA (as F)" As	U.S OSHA - Final PELs - Time
			Fluorides [RR-02792-9]	Weighted Averages (TWAs)
Sodium Fluoride (7681-49-4)	TLV-TWA	USA	"2.5 mg/m³ TWA (as F)" As	ACGIH - Threshold Limit Values - Time
			Fluorides [RR-02792-9]	Weighted Averages (TLV-TWA)
Sodium Fluoride (7681-49-4)	TWA	USA	"2.5 mg/m³ TWA (as F)" As	U.S OSHA - Final PELs - Time
			Fluorides [RR-02792-9]	Weighted Averages (TWAs)
Sodium Fluoride (7681-49-4)	TLV-TWA	USA	2.5 mg/m³ TWA (as F)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Sodium Fluoride (7681-49-4)	TWA	USA	2.5 mg/m³ TWA (as F)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Sodium Fluoride (7681-49-4)	TLV-TWA	USA	"2.5 mg/m³ TWA (as F)" As	ACGIH - Threshold Limit Values - Time
			Fluorides [RR-02792-9]	Weighted Averages (TLV-TWA)
Sodium Fluoride (7681-49-4)	TWA	USA	"2.5 mg/m³ TWA (as F)" As	U.S OSHA - Final PELs - Time
			Fluorides [RR-02792-9]	Weighted Averages (TWAs)

Product Number: 754 Page 3 of 9

#### 8.2. Exposure Controls

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves. **Eye Protection:** Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

### **SECTION 9: Physical and Chemical Properties**

#### 9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: None

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: 0.0°C

Initial Boiling Point/Range: 100°C - 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.00

Solubility: Miscible

Partition Coefficient: Data not available.

**Auto-Ignition Temperature:** Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: Data not available.

Product Number: 754 Page 4 of 9

### **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

None found.

#### 10.4. Hazardous Decomposition Products

Will not occur.

### **SECTION 11: Toxicological Information**

#### 11.1. Information on Toxicological Effects

#### **Acute Toxicity - Oral Exposure:**

Not applicable.

#### **Acute Toxicity - Dermal Exposure:**

Not applicable.

#### **Acute Toxicity - Inhalation Exposure:**

Not applicable.

#### **Acute Toxicity - Other Information:**

LD50, Oral, Rat: 52 mg/kg (Sodium Fluoride), details of toxic effects not reported other than lethal dose value.

#### **Skin Corrosion and Irritation:**

Not applicable.

#### **Serious Eye Damage and Irritation:**

Not applicable.

#### **Respiratory Sensitization:**

Not applicable.

#### **Skin Sensitization:**

Not applicable.

#### Germ Cell Mutagenicity:

Not applicable.

#### Carcinogenicity:

Not applicable.

#### **Reproductive Toxicity:**

Not applicable.

Product Number: 754 Page 5 of 9

#### **Specific Target Organ Toxicity from Single Exposure:**

Not applicable.

#### **Specific Target Organ Toxicity from Repeated Exposure:**

Not applicable.

#### **Aspiration Hazard:**

Not applicable.

#### **Additional Toxicology Information:**

Data not available.

### **SECTION 12: Ecological Information**

#### 12.1. Ecotoxicity

Not applicable.

#### 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.

Product Number: 754 Page 6 of 9

## **SECTION 14: Transportation Information**



Not regulated according to DOT Regulations.

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

Not regulated according to IATA Dangerous Goods Regulations.

### 14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

Product Number: 754 Page **7** of **9** 

### **SECTION 15: Regulatory Information**

#### 15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Sodium Fluoride (CAS # 7681-49-4): 1000 lb final RQ; 454 kg final RQ
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

  Not listed.

#### 15.5. Massachusetts Right-to-Know Substance List

Sodium Fluoride (CAS # 7681-49-4): Present

#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Sodium Fluoride (CAS # 7681-49-4): Environmental hazard

Sodium Fluoride (CAS # 7681-49-4): Present

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]

Water (CAS # 7732-18-5): Present

#### 15.7. New Jersey Worker and Community Right-to-Know Components

Sodium Fluoride (CAS # 7681-49-4): "sn 0936" As Fluorides [RR-02792-9]

Sodium Fluoride (CAS # 7681-49-4): sn 0936

Sodium Fluoride (CAS # 7681-49-4): sn 1699

Sodium Fluoride (CAS # 7681-49-4): teratogen

#### 15.8. California Proposition 65

Not listed.

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

Sodium Fluoride (CAS # 7681-49-4): Present (DSL)

Water (CAS # 7732-18-5): Present (DSL)

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

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Sodium Fluoride (CAS # 7681-49-4): Present (ACTIVE)

Water (CAS # 7732-18-5): Present (ACTIVE)

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

Sodium Fluoride (CAS # 7681-49-4): 231-667-8

Water (CAS # 7732-18-5): 231-791-2

Product Number: 754 Page 8 of 9



### **SECTION 16: Other Information**

#### 16.1. Full Text of Hazard Statements and Precautionary Statements

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

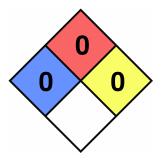
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

#### 16.3. National Fire Protection Association (NFPA) Rating

Health: 0
Flammability: 0
Reactivity: 0
Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2024-01-27

#### 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.

Product Number: 754 Page 9 of 9



Classified According to OSHA Hazard Communication Standard (HCS)

#### **SECTION 1: Identification**

#### 1.1. Product Identifier

**Trade Name or Designation:** Nitrate Standard, 1000 ppm NO<sub>3</sub><sup>-</sup> (226 ppm N)

**Product Number: 5307** 

Other Identifying Product Numbers: 5307-16, 5307-32, 5307-4, 5307-5, 5307-8

#### 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: 448 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

#### **SECTION 2: Hazard(s) Identification**

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

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

#### 2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.

Product Number: 754 Page 1 of 9



Hazard Statements: None Required.

**Precautionary Statements:** None Required.

#### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

### **SECTION 3: Composition / Information on Ingredients**

#### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Number	Weight%
Water	$H_2O$	18.01 g/mol 7732-18-5	99.84
Potassium Nitrate	KNO₃	101.10 g/mol 7757-79-1	0.16

#### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

**Eye Contact:** May cause slight irritation.

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

**Skin Contact:** May cause slight irritation.

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

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Does not present any significant health hazards. May cause irritation to the skin and eyes. Wash areas of contact with soap and water. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation. CHRONIC EFFECTS / CARCINOGENICITY: Prolonged exposure to small amounts may produce anemia, methemoglobinemia, nephritis.

#### 4.3. 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. Flush with plenty of 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.

Product Number: 754 Page 2 of 9

#### 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

#### 5.3. Special Protective Equipment 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.

### **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 Control Parameters

Chemical Name	Limit Type	Country Exposure Limit	Information Source
Data not available.			

#### 8.2. Exposure Controls

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves. **Eye Protection:** Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

Product Number: 754 Page 3 of 9



### **SECTION 9: Physical and Chemical Properties**

#### 9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: approximately 7

Melting/Freezing Point: 0.0°C

Initial Boiling Point/Range: 100°C - 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.01

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

**Explosive Properties:** Data not available.

Oxidizing Properties: 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

Heavy metals, phosphites, organic compounds, carbonaceous materials, strong acids.

#### 10.4. Hazardous Decomposition Products

Will not occur.

Product Number: 754 Page 4 of 9

### **SECTION 11: Toxicological Information**

#### 11.1. Information on Toxicological Effects

**Acute Toxicity - Oral Exposure:** 

Not applicable.

**Acute Toxicity - Dermal Exposure:** 

Not applicable.

**Acute Toxicity - Inhalation Exposure:** 

Not applicable.

**Acute Toxicity - Other Information:** 

LD50, Oral, Rat: 3750 mg/kg (Potassium Nitrate), details of toxic effects not reported other than lethal dose value.

**Skin Corrosion and Irritation:** 

Not applicable.

Serious Eye Damage and Irritation:

Not applicable.

**Respiratory Sensitization:** 

Not applicable.

Skin Sensitization:

Not applicable.

**Germ Cell Mutagenicity:** 

Not applicable.

Carcinogenicity:

Not applicable.

**Reproductive Toxicity:** 

Not applicable.

**Specific Target Organ Toxicity from Single Exposure:** 

Not applicable.

**Specific Target Organ Toxicity from Repeated Exposure:** 

Not applicable.

**Aspiration Hazard:** 

Not applicable.

**Additional Toxicology Information:** 

Data not available.

## **SECTION 12: Ecological Information**

#### 12.1. Ecotoxicity

Not applicable.

Product Number: 754 Page 5 of 9

#### 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)

Not regulated according to DOT Regulations.

Product Number: 754 Page 6 of 9

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

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

## **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards
  Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

  Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Not listed.
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Potassium Nitrate (CAS # 7757-79-1): "1.0 % de minimis concentration (reportable only when in aqueous solution, listed under Chemical Category N511)" As Nitrate compounds, water dissociable [RR-03804-0]

Potassium Nitrate (CAS # 7757-79-1): 1.0 % de minimis concentration (reportable only when in aqueous solution, listed under Chemical Category N511)

Product Number: 754 Page **7** of **9** 

#### 15.5. Massachusetts Right-to-Know Substance List

Potassium Nitrate (CAS # 7757-79-1): Present

#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]

Water (CAS # 7732-18-5): Present

Potassium Nitrate (CAS # 7757-79-1): Present

#### 15.7. New Jersey Worker and Community Right-to-Know Components

Potassium Nitrate (CAS # 7757-79-1): "SN 3722 500 lb TPQ (water dissociable, Category Code N511)" As Nitrate compounds [RR-01770-9]

Potassium Nitrate (CAS # 7757-79-1): "sn 3722" As Nitrate compounds [RR-01770-9]

Potassium Nitrate (CAS # 7757-79-1): sn 1574

Potassium Nitrate (CAS # 7757-79-1): sn 3722

Potassium Nitrate (CAS # 7757-79-1): SN 3722 500 lb TPQ (water dissociable, Category Code N511)

#### 15.8. California Proposition 65

Not listed.

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

Water (CAS # 7732-18-5): Present (DSL)

Potassium Nitrate (CAS # 7757-79-1): Present (DSL)

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

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Water (CAS # 7732-18-5): Present (ACTIVE)

Potassium Nitrate (CAS # 7757-79-1): Present (ACTIVE)

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

Water (CAS # 7732-18-5): 231-791-2

Potassium Nitrate (CAS # 7757-79-1): 231-818-8

#### **SECTION 16: Other Information**

#### 16.1. Full Text of Hazard Statements and Precautionary Statements

Product Number: 754 Page 8 of 9



# RICCA CHEMICAL COMPANY®

## **Safety Data Sheet**

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

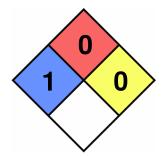
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

### 16.3. National Fire Protection Association (NFPA) Rating

Health: 1
Flammability: 0
Reactivity: 0
Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2024-01-27

#### **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.

Product Number: 754 Page 9 of 9



Classified According to OSHA Hazard Communication Standard (HCS)

#### **SECTION 1: Identification**

#### 1.1. Product Identifier

**Trade Name or Designation:** Nitrite Standard, 1000 ppm NO<sub>2</sub><sup>-</sup> (304.5 ppm N)

**Product Number: 5445** 

Other Identifying Product Numbers: 5445-16, 5445-4, 5445-8

#### 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: 448 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

#### **SECTION 2: Hazard(s) Identification**

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

		Hazard	
Hazard Class	Category	Statements	Precautionary Statements:
Reproductive Toxicity	Category 2	H361	P201, P202, P280, P308+P313, P405, P501

#### 2.2. GHS Label Elements

#### Pictograms:



Product Number: 754 Page 1 of 11



# RICCA CHEMICAL COMPANY®

## **Safety Data Sheet**

Signal Word: Warning

**Hazard Statements:** 

Hazard Number	Hazard Statement
H361	Suspected of damaging fertility or the unborn child.

#### **Precautionary Statements:**

Precautionary Number	Precautionary Statement	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P280	Wear protective gloves and eye protection.	
P308+P313	IF exposed or concerned: Get medical attention.	
P405	Store locked up.	
P501	Dispose of contents in accordance with local, state, federal and international regulations.	

#### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

## **SECTION 3: Composition / Information on Ingredients**

#### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight (	CAS Number	Weight%
Water	H <sub>2</sub> O	18.01 g/mol	7732-18-5	99.69
Sodium Nitrite	NaNO <sub>2</sub>	68.99 g/mol	7632-00-0	0.16
Chloroform	CHCl₃	119.37 g/mol	67-66-3	0.15

#### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

**Eye Contact:** May cause irritation, redness, pain, and tearing.

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

**Skin Contact:** May cause slight irritation.

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

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Suspected of damaging fertility or the unborn child. May cause irritation to the skin and eyes. Wash areas of contact with soap and water. Contains a minute amount of chloroform as a preservative. Chloroform is a possible carcinogen. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause slight irritation.

Product Number: 754 Page 2 of 11

### 4.3. 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. Flush with plenty of 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

Not considered to be a fire or explosion hazard.

#### 5.3. Special Protective Equipment 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 with suitable material and dispose of in accordance with local regulations.

### **SECTION 7: Handling and Storage**

#### 7.1. Precautions for Safe Handling and Storage Conditions

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

Product Number: 754 Page 3 of 11

### **SECTION 8: Exposure Controls / Personal Protection**

#### **8.1 Control Parameters**

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Chloroform (67-66-3)	PEL-Ceiling	USA	50 ppm Ceiling; 240 mg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling Limits
Chloroform (67-66-3)	TLV-TWA	USA	10 ppm TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Chloroform (67-66-3)	TWA	USA	"0.5 mg/m³ TWA (as Sb)" As Antimony compounds [RR-00585-6]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Chloroform (67-66-3)	TLV-TWA	USA	"0.5 mg/m³ TWA (as Sb)" As Antimony compounds [RR-00585-6]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

#### 8.2. Exposure Controls

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Wear protective gloves and eye protection. Chemical resistant gloves. **Eye Protection:** Wear protective gloves and eye protection. Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

Product Number: 754 Page 4 of 11



### **SECTION 9: Physical and Chemical Properties**

#### 9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: approximately 9

Melting/Freezing Point: 0.0°C

Initial Boiling Point/Range: 100°C - 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.01

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

**Explosive Properties:** Data not available.

Oxidizing Properties: 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

Cyanides, Ammonium salts, Lithium, Potassium plus Ammonia, Sodium Thiosulfate.

#### 10.4. Hazardous Decomposition Products

Will not occur.

Product Number: 754 Page 5 of 11

### **SECTION 11: Toxicological Information**

#### 11.1. Information on Toxicological Effects

#### **Acute Toxicity - Oral Exposure:**

Not applicable.

#### **Acute Toxicity - Dermal Exposure:**

Not applicable.

#### **Acute Toxicity - Inhalation Exposure:**

Not applicable.

#### **Acute Toxicity - Other Information:**

LD50, Oral, Rat: 180 mg/kg (Sodium Nitrite), details of toxic effects not reported other than lethal dose value.

#### **Skin Corrosion and Irritation:**

Not applicable.

#### Serious Eye Damage and Irritation:

Not applicable.

#### **Respiratory Sensitization:**

Not applicable.

#### Skin Sensitization:

Not applicable.

#### **Germ Cell Mutagenicity:**

Not applicable.

#### Carcinogenicity:

Not applicable.

#### **Reproductive Toxicity:**

Suspected of damaging fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Specific Target Organ Toxicity from Single Exposure:**

Not applicable.

#### **Specific Target Organ Toxicity from Repeated Exposure:**

Not applicable.

#### **Aspiration Hazard:**

Not applicable.

#### **Additional Toxicology Information:**

Data not available.

Product Number: 754 Page 6 of 11

### **SECTION 12: Ecological Information**

### 12.1. Ecotoxicity

Not applicable.

#### 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)

Not regulated according to DOT Regulations.

Product Number: 754 Page **7** of **11** 

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

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

## **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards
  Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Chloroform (CAS # 67-66-3): 10 lb EPCRA RQ Chloroform (CAS # 67-66-3): 10000 lb TPQ

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

Chloroform (CAS # 67-66-3): 10 lb final RQ; 4.54 kg final RQ Sodium Nitrite (CAS # 7632-00-0): 100 lb final RQ; 45.4 kg final RQ

Product Number: 754 Page 8 of 11



#### 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Chloroform (CAS # 67-66-3): "1.0 % de minimis concentration (includes any unique chemical substance that contains Antimony as part of that chemical's infrastructure, listed under Chemical Category N010)" As Antimony compounds [RR-00585-6]

Chloroform (CAS # 67-66-3): 0.1 % de minimis concentration

Sodium Nitrite (CAS # 7632-00-0): 1.0 % de minimis concentration

#### 15.5. Massachusetts Right-to-Know Substance List

Chloroform (CAS # 67-66-3): Carcinogen; Extraordinarily hazardous

Sodium Nitrite (CAS # 7632-00-0): Present

#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Chloroform (CAS # 67-66-3): "Environmental hazard" As Antimony compounds [RR-00585-6]

Chloroform (CAS # 67-66-3): "Environmental hazard" As Halomethanes [RR-00327-0]

Chloroform (CAS # 67-66-3): "Present" As Antimony compounds [RR-00585-6]

Chloroform (CAS # 67-66-3): "Present" As Halomethanes [RR-00327-0]

Chloroform (CAS # 67-66-3): Environmental hazard

Chloroform (CAS # 67-66-3): Environmental hazard; Special hazardous substance

Chloroform (CAS # 67-66-3): Present

Sodium Nitrite (CAS # 7632-00-0): Environmental hazard

Sodium Nitrite (CAS # 7632-00-0): Present

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]

Water (CAS # 7732-18-5): Present

#### 15.7. New Jersey Worker and Community Right-to-Know Components

Chloroform (CAS # 67-66-3): "SN 2223 500 lb TPQ (Category Code N010. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Antimony compounds [RR-00585-6]

Chloroform (CAS # 67-66-3): "sn 2223" As Antimony compounds [RR-00585-6]

Chloroform (CAS # 67-66-3): carcinogen Chloroform (CAS # 67-66-3): sn 0388

Chloroform (CAS # 67-66-3): SN 0388 500 lb TPQ

Sodium Nitrite (CAS # 7632-00-0): sn 2258

Sodium Nitrite (CAS # 7632-00-0): SN 2258 500 lb TPQ

#### 15.8. California Proposition 65

Chloroform (CAS # 67-66-3): 20  $\mu$ g/day NSRL (oral); 40  $\mu$ g/day NSRL (inhalation)

Chloroform (CAS # 67-66-3): carcinogen, 10/1/1987

Chloroform (CAS # 67-66-3): developmental toxicity, 8/7/2009

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

Chloroform (CAS # 67-66-3): Present (DSL) Sodium Nitrite (CAS # 7632-00-0): Present (DSL)

Water (CAS # 7732-18-5): Present (DSL)

Product Number: 754 Page 9 of 11

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

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Chloroform (CAS # 67-66-3): Present (ACTIVE) Sodium Nitrite (CAS # 7632-00-0): Present [S] (ACTIVE) Water (CAS # 7732-18-5): Present (ACTIVE)

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

Chloroform (CAS # 67-66-3): 200-663-8 Sodium Nitrite (CAS # 7632-00-0): 231-555-9 Water (CAS # 7732-18-5): 231-791-2

#### SECTION 16: Other Information

#### 16.1. Full Text of Hazard Statements and Precautionary Statements

Suspected of damaging fertility or the unborn child.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection.

IF exposed or concerned: Get medical attention.

Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

Product Number: 754 Page 10 of 11

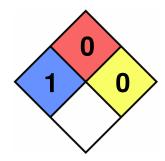


# RICCA CHEMICAL COMPANY®

## **Safety Data Sheet**

### 16.3. National Fire Protection Association (NFPA) Rating

Health: 1
Flammability: 0
Reactivity: 0
Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2024-01-27

#### **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.

Product Number: 754 Page 11 of 11



Classified According to OSHA Hazard Communication Standard (HCS)

#### **SECTION 1: Identification**

#### 1.1. Product Identifier

**Trade Name or Designation:** Phosphate Standard, 1000 ppm PO<sub>4</sub>3<sup>-</sup> (326 ppm P)

**Product Number: 5839** 

Other Identifying Product Numbers: 5839-16, 5839-32, 5839-4

#### 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: 448 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

#### **SECTION 2: Hazard(s) Identification**

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

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

#### 2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.

Product Number: 754 Page 1 of 9



Hazard Statements: None Required.

Precautionary Statements: None Required.

#### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

### **SECTION 3: Composition / Information on Ingredients**

#### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Number	Weight%
Water	H <sub>2</sub> O	18.01 g/mol 7732-18-5	99.86
Potassium Dihydrogen Phosphate	KH₂PO₄	136.08 g/mol 7778-77-0	0.14

#### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

**Eye Contact:** May cause slight irritation.

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

**Skin Contact:** May cause slight irritation to those allergic to phosphates.

**Ingestion:** Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Does not present any significant health hazards at these low concentrations. Wash areas of contact with water. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation to those allergic to phosphates.

#### 4.3. 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. Flush with plenty of 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.

Product Number: 754 Page 2 of 9

#### 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

#### 5.3. Special Protective Equipment 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 (vermiculite, clay, etc.) and dispose of in accordance with local regulations. Check with local agencies for the proper disposal of phosphate containing solutions.

#### **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 Control Parameters

Chemical Name	Limit Type	Country Exposure Limit	Information Source
Data not available.			

#### 8.2. Exposure Controls

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves. **Eye Protection:** Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

Product Number: 754 Page 3 of 9



### **SECTION 9: Physical and Chemical Properties**

#### 9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: 4.4 - 4.7 (aqueous solution)

Melting/Freezing Point: 0.0°C

Initial Boiling Point/Range: 100°C - 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

**Vapor Density:** Data not available.

Relative Density: 1.00

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

**Explosive Properties:** Data not available.

Oxidizing Properties: 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

None identified.

#### 10.4. Hazardous Decomposition Products

Will not occur.

Product Number: 754 Page 4 of 9

### **SECTION 11: Toxicological Information**

#### 11.1. Information on Toxicological Effects

**Acute Toxicity - Oral Exposure:** 

Not applicable.

**Acute Toxicity - Dermal Exposure:** 

Not applicable.

**Acute Toxicity - Inhalation Exposure:** 

Not applicable.

**Acute Toxicity - Other Information:** 

No LD50 (oral, rat) information reported in "Registry of Toxic Effects of Chemical Substances."

**Skin Corrosion and Irritation:** 

Not applicable.

Serious Eye Damage and Irritation:

Not applicable.

**Respiratory Sensitization:** 

Not applicable.

**Skin Sensitization:** 

Not applicable.

**Germ Cell Mutagenicity:** 

Not applicable.

Carcinogenicity:

Not applicable.

**Reproductive Toxicity:** 

Not applicable.

**Specific Target Organ Toxicity from Single Exposure:** 

Not applicable.

**Specific Target Organ Toxicity from Repeated Exposure:** 

Not applicable.

**Aspiration Hazard:** 

Not applicable.

**Additional Toxicology Information:** 

Data not available.

## **SECTION 12: Ecological Information**

#### 12.1. Ecotoxicity

Not applicable.

Product Number: 754 Page 5 of 9

#### 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)

Not regulated according to DOT Regulations.

Product Number: 754 Page 6 of 9

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

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

## **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards
  Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Not listed.
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

  Not listed.
- 15.5. Massachusetts Right-to-Know Substance List Not listed.

Product Number: 754 Page **7** of **9** 

#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6] Water (CAS # 7732-18-5): Present

#### 15.7. New Jersey Worker and Community Right-to-Know Components

Not listed.

#### 15.8. California Proposition 65

Not listed.

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

Water (CAS # 7732-18-5): Present (DSL)
Potassium Dihydrogen Phosphate (CAS # 7778-77-0): Present (DSL)

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

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Water (CAS # 7732-18-5): Present (ACTIVE)
Potassium Dihydrogen Phosphate (CAS # 7778-77-0): Present (ACTIVE)

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

Water (CAS # 7732-18-5): 231-791-2 Potassium Dihydrogen Phosphate (CAS # 7778-77-0): 231-913-4 Potassium Dihydrogen Phosphate (CAS # 7778-77-0): 240-213-8

#### **SECTION 16: Other Information**

#### 16.1. Full Text of Hazard Statements and Precautionary Statements

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

Product Number: 754 Page 8 of 9

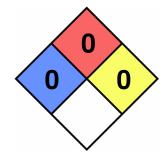


# RICCA CHEMICAL COMPANY®

## **Safety Data Sheet**

### 16.3. National Fire Protection Association (NFPA) Rating

Health: 0
Flammability: 0
Reactivity: 0
Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2024-01-27

#### **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.

Product Number: 754 Page 9 of 9



Classified According to OSHA Hazard Communication Standard (HCS)

#### **SECTION 1: Identification**

#### 1.1. Product Identifier

**Trade Name or Designation:** Sulfate Standard, 1000 ppm SO<sub>4</sub><sup>2-</sup>

**Product Number: 8112** 

Other Identifying Product Numbers: 8112-16, 8112-32, 8112-4, 8112-8

#### 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: 448 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

#### **SECTION 2: Hazard(s) Identification**

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

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

#### 2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.

Product Number: 754 Page 1 of 9



Hazard Statements: None Required.

**Precautionary Statements:** None Required.

#### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

### **SECTION 3: Composition / Information on Ingredients**

#### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Number	Weight%
Water	$H_2O$	18.01 g/mol 7732-18-5	99.85
Sodium Sulfate Anhydrous	Na <sub>2</sub> SO <sub>4</sub>	142.04 g/mol 7757-82-6	0.15

#### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

**Eye Contact:** May cause slight irritation.

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

**Skin Contact:** May cause slight irritation.

**Ingestion:** Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Does not present any significant health hazards. May be harmful if swallowed. Wash areas of contact with water. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation. CHRONIC EFFECTS / CARCINOGENICITY: Prolonged or repeated exposure may cause dermatitis.

#### 4.3. 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. Flush with plenty of 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.

Product Number: 754 Page 2 of 9

#### 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

#### 5.3. Special Protective Equipment 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

Collect liquid and dilute with water. Release to drain if local regulations allow. For larger spills, absorb with suitable material (vermiculite, clay, etc.). Collect the solid residue and save for disposal.

### **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 Control Parameters

Chemical Name	Limit Type	Country Exposure Limit	Information Source
Data not available.			

#### 8.2. Exposure Controls

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves. **Eye Protection:** Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

Product Number: 754 Page 3 of 9



### **SECTION 9: Physical and Chemical Properties**

#### 9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: 0.0°C

Initial Boiling Point/Range: 100°C - 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.01

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: 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

Aluminum and magnesium with heat.

#### 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 applicable.

**Acute Toxicity - Dermal Exposure:** 

Not applicable.

**Acute Toxicity - Inhalation Exposure:** 

Not applicable.

**Acute Toxicity - Other Information:** 

LD50, Oral, Mouse: (Sodium Sulfate) 5989 mg/kg, details of toxic effects not reported other than lethal dose value.

**Skin Corrosion and Irritation:** 

Not applicable.

Serious Eye Damage and Irritation:

Not applicable.

**Respiratory Sensitization:** 

Not applicable.

Skin Sensitization:

Not applicable.

**Germ Cell Mutagenicity:** 

Not applicable.

Carcinogenicity:

Not applicable.

**Reproductive Toxicity:** 

Not applicable.

**Specific Target Organ Toxicity from Single Exposure:** 

Not applicable.

**Specific Target Organ Toxicity from Repeated Exposure:** 

Not applicable.

**Aspiration Hazard:** 

Not applicable.

**Additional Toxicology Information:** 

Data not available.

## **SECTION 12: Ecological Information**

#### 12.1. Ecotoxicity

Not applicable.

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#### 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)

Not regulated according to DOT Regulations.

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

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

## **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards
  Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

  Not listed
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

  Not listed.
- 15.5. Massachusetts Right-to-Know Substance List

Sodium Sulfate Anhydrous (CAS # 7757-82-6): Present (solution)

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#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]

Water (CAS # 7732-18-5): Present

Sodium Sulfate Anhydrous (CAS # 7757-82-6): Environmental hazard (solution)

Sodium Sulfate Anhydrous (CAS # 7757-82-6): Present (solution)

#### 15.7. New Jersey Worker and Community Right-to-Know Components

Not listed.

#### 15.8. California Proposition 65

Not listed.

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

Water (CAS # 7732-18-5): Present (DSL)

Sodium Sulfate Anhydrous (CAS # 7757-82-6): Present (DSL)

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

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Water (CAS # 7732-18-5): Present (ACTIVE)

Sodium Sulfate Anhydrous (CAS # 7757-82-6): Present (ACTIVE)

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

Water (CAS # 7732-18-5): 231-791-2

Sodium Sulfate Anhydrous (CAS # 7757-82-6): 231-820-9

#### **SECTION 16: Other Information**

### 16.1. Full Text of Hazard Statements and Precautionary Statements

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

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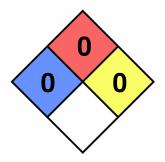


# RICCA CHEMICAL COMPANY®

## **Safety Data Sheet**

#### 16.3. National Fire Protection Association (NFPA) Rating

Health: 0
Flammability: 0
Reactivity: 0
Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2024-01-27

#### **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.

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