

Classified According to OSHA Hazard Communication Standard (HCS)

# **SECTION 1: Identification**

#### **1.1. Product Identifier**

Trade Name or Designation:

Bromate-Bromide Solution, 0.0500 Normal (N/20)

Product Number: 1168 Other Identifying Product Numbers: 1168-1, 1168-32

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

# 1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

Telephone: 888-467-4222

#### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) CHEMTREC (International)

800-424-9300 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.



Hazard Statements: None Required.

Precautionary Statements: None Required.

#### **2.4. Hazards not Otherwise Classified or Covered by GHS** Data not available.

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

#### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Nu	mber Weight%
Water	H₂O	18.01 g/mol 7732-18	-5 98.86
Potassium Bromide	KBr	119.00 g/mol 7758-02	-3 1.00
Potassium Bromate	KBrO₃	167.00 g/mol 7758-01	-2 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.

Ingestion: Dilute immediately with water or milk. Induce vomiting. Call a physician.

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

Non-flammable, non-corrosive. Does not present any significant health hazards. Contains Potassium Bromate, which is classified as a possible carcinogen by IARC (limited evidence in humans). Wash areas of contact with water. If ingested, dilute with water or milk. Induce vomiting. Call a physician 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. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute immediately with water or milk. Induce vomiting. Call a physician.

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# **Safety Data Sheet**

# **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 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.

#### Product Number: 1168

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# **Safety Data Sheet**

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

# 9.1. Basic Physical and Chemical Properties

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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: 1.00
                       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.
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# **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, Selenium.

# **10.4. Hazardous Decomposition Products**

Will not occur.

# Product Number: 1168



# **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: 157 mg/kg (Potassium Bromate), 3070 mg/kg (Potassium Bromide), gastrointestinal and sense organ effects noted. Potassium Bromate is investigated as a tumorigen.

#### 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.

- **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.



# 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 Bromate (CAS # 7758-01-2): 0.1 % de minimis concentration
- **15.5. Massachusetts Right-to-Know Substance List** Potassium Bromate (CAS # 7758-01-2): Carcinogen; Extraordinarily hazardous



#### 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 Bromate (CAS # 7758-01-2): Present

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

Potassium Bromate (CAS # 7758-01-2): carcinogen Potassium Bromate (CAS # 7758-01-2): sn 1559 Potassium Bromate (CAS # 7758-01-2): SN 1559 500 lb TPQ

#### 15.8. California Proposition 65

Potassium Bromate (CAS # 7758-01-2): 1 µg/day NSRL Potassium Bromate (CAS # 7758-01-2): carcinogen, 1/1/1990

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

Water (CAS # 7732-18-5): Present (DSL) Potassium Bromate (CAS # 7758-01-2): Present (CEPA, subsection 81(3) applies) (DSL) Potassium Bromide (CAS # 7758-02-3): 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 Bromate (CAS # 7758-01-2): Present (ACTIVE) Potassium Bromide (CAS # 7758-02-3): 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 Bromate (CAS # 7758-01-2): 231-829-8 Potassium Bromide (CAS # 7758-02-3): 231-830-3

# **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:1Flammability:0Reactivity:0Special Hazard:



# 16.4. Document Revision

Last Revision Date: 2023-09-11

# 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.