

## **SECTION 1: Identification**

### 1.1. Product Identifier

Trade Name or Designation: Barium Nitrate TS

Product Number: 899.5 Other Identifying Product Numbers: 899.5-16

### 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 hr)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

## SECTION 2: Hazard(s) Identification

### 2.1. Classification of the Substance or Mixture (in accordance with OSHA HCS 29 CFR 1910.1200)

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

		Hazard	
Hazard Class	Category	Statement	Precautionary Statements
Specific Target Organs/Systemic Toxicity Following Single Exposure	Category 1	H370	P260, P264, P270, P307+P311, P321, P405, P501
Specific Target Organs/Systemic Toxicity Following Repeated Exposure	Category 2	H373	P260, P314, P501

### 2.2. GHS Label Elements

Pictograms:



# **Safety Data Sheet**

## Signal Word: Danger

#### Hazard Statements:

Hazard Number	Hazard Statement
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary Statements:**

Precautionary Number	Precautionary Statement
P260	Do not breathe dust, fumes or mist.
P264	Wash arms, hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P307+P311	IF exposed: Call a POISON CENTER or physician.
P314	Get medical attention if you feel unwell.
P321	Specific treatment (Refer to SDS).
P405	Store locked up.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

### 2.3. WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

### 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	H₂O	18.01 g/mol	7732-18-5	93.81%
Barium Nitrate	Ba(NO <sub>3</sub> ) <sub>2</sub>	261.33 g/mol	10022-31-8	6.19%

## **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 irritation, redness, and pain.

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

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

CAUTION! Harmful if swallowed. May cause irritation to skin, eyes, and respiratory system. Affects heart, respiratory system and central nervous system. Water and stomach acids solubilize barium salts and can cause poisoning. Wash areas of contact with plenty of water. If ingested, induce vomiting and call a physician. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness, and pain.

### 4.3. Medical Attention or Special Treatment Needed

Specific treatment (Refer to SDS).

## **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

Do not flush to sewer. Absorb with suitable material. Containerize for disposal with a hazardous waste disposal facility. 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.

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

### 8.1. Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Barium Nitrate (10022-31-8)	TWA	USA	0.5 mg/m³ TWA (as Ba)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Barium Nitrate (10022-31-8)	TLV-TWA	USA	0.5 mg/m³ TWA (as Ba)	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: 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:	Data not available.	
Melting/Freezing Point:	Approximately 0°C	
Initial Boiling Point /Range:	Approximately 100°C - Approximately 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:	1.05	
Solubility:	Miscible	
Partition Coefficient (n-Octanol/Water):	Data not available.	
Auto-Ignition Temperature:	Data not available.	
Decomposition Temperature:	Data not available.	
Viscosity:	Data not available.	
ExplosiveProperties:	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

Organic and combustible materials, Aluminum and Magnesium alloys.

## 10.4. Hazardous Decomposition Products

Will not occur.

# **Safety Data Sheet**

## **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: (Barium Nitrate) 355 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:

Causes damage to organs. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Refer to SDS). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

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

May cause damage to organs through prolonged or repeated exposure. Do not breathe dust, fumes or mist. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

#### **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.

## **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)** Barium Nitrate (CAS # 10022-31-8): 1.0 % de minimis concentration (does not include Barium sulfate CAS 7727-43-7, Chemical Category N040)

Barium Nitrate (CAS # 10022-31-8): 1.0 % de minimis concentration (reportable only when in aqueous solution, Chemical Category N511)

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

Barium Nitrate (CAS # 10022-31-8): Present

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

Barium Nitrate (CAS # 10022-31-8): Environmental hazard Barium Nitrate (CAS # 10022-31-8): Present Water (CAS # 7732-18-5): Present

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

Barium Nitrate (CAS # 10022-31-8): sn 0186 Barium Nitrate (CAS # 10022-31-8): sn 2146 Barium Nitrate (CAS # 10022-31-8): SN 2146 TPQ: 500 lb (Category Code N040. Includes any unique chemical substance that contains the named metal as part of that chemical structure except Barium sulfate) Barium Nitrate (CAS # 10022-31-8): sn 3722 Barium Nitrate (CAS # 10022-31-8): SN 3722 TPQ: 500 lb (water dissociable, Category Code N511)

### 15.8. California Proposition 65

Not listed.

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

Barium Nitrate (CAS # 10022-31-8): Present Water (CAS # 7732-18-5): Present

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

Barium Nitrate (CAS # 10022-31-8): Present Water (CAS # 7732-18-5): Present

## 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS),

European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP) Not listed.

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## **SECTION 16: Other Information**

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

Causes damage to organs. May cause damage to organs through prolonged or repeated exposure.

Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product.

IF exposed: Call a POISON CENTER or physician. Get medical attention if you feel unwell. Specific treatment (Refer to SDS).

Store locked up.

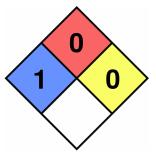
Dispose of contents in accordance with local, state, federal and international regulations.

#### 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. 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: 5/1/2015

## 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.