

## **SECTION 1: Identification**

## 1.1. Product Identifier

**Trade Name or Designation:** VeriSpec<sup>™</sup> Bismuth Standard for ICP 10 g/L in 10% HNO<sub>3</sub> Manufactured and Tested in an ISO 17025/Guide 34 Accredited Facility

Product Number: RV010370

Other Identifying Product Numbers: RV010370-100N, RV010370-250N, RV010370-500N

## 1.2. Recommended Use and Restrictions on Use

Calibration Standard

## 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	
Skin Corrosion / Irritation	Category 1B	H314	P260, P264, P280, P301+P330+P331,	
			P303+P361+P353, P363, P304+P340, P310,	
			P321, P305+P351+P338, P405, P501	
Corrosive to Metals	Category 1	H290	P234, P390, P406	

## 2.2. GHS Label Elements

Pictograms:



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# **Safety Data Sheet**

## Signal Word: Danger

#### Hazard Statements:

Hazard Number	Hazard Statement
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.

#### **Precautionary Statements:**

Precautionary Number	Precautionary Statement
P234	Keep only in original container.
P260	Do not breathe dust, fumes or mist.
P264	Wash arms, hands and face thoroughly after handling.
P280	Wear protective gloves and eye protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P406	Store in corrosive resistant container with a resistant inner liner.

## 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%
Bismuth (III) Nitrate Pentahydrate	Bi(NO₃)₃·5H₂O	Data not available.	10035-06-0	2.02%
Nitric Acid	HNO <sub>3</sub>	63.01 g/mol	7697-37-2	10.00%
Water	H <sub>2</sub> O	18.01 g/mol	7732-18-5	87.98%

## **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: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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.

#### 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 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 in corrosive resistant container with a resistant inner liner.

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

## 8.1. Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Nitric Acid (7697-37-2)	TWA	USA	2 ppm TWA	U.S OSHA - Final PELs - Time Weighted
			5 mg/m³ TWA	Averages (TWAs)
Nitric Acid (7697-37-2)	TLV-STEL	USA	4 ppm STEL	ACGIH - Threshold Limit Values - Short
				Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	2 ppm TWA	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: No specific controls are needed. Normal room ventilation is adequate

Skin Protection: Wear protective gloves and eye protection.

Eye Protection: Wear protective gloves and eye protection.

#### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection.

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

## 9.1. Basic Physical and Chemical Properties

Data not available.
Liquid
Data not available.
1.00
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

Keep only in original container.

### **10.4. Hazardous Decomposition Products**

May emit irritating fumes when heated to decomposition.

## **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:

Causes severe skin burns and eye damage. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### 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)

Sizes: 100 mL, 250 mL, 500 mL UN Number: UN3264 Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, n.o.s., (Nitric Acid) Hazard Class: 8 Packing Group: II Hazard Placard Labels:



Sizes: UN Number: Proper Shipping Name: Hazard Class: Packing Group: Hazard Placard Labels:

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

Sizes: 100 mL, 250 mL, 500 mL UN Number: UN3264 Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, n.o.s., (Nitric Acid) Hazard Class: 8 Packing Group: II Hazard Placard Labels:

## CORROSIVE 8

## **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** Nitric Acid (CAS # 7697-37-2): 1000 lb EPCRA RQ Nitric Acid (CAS # 7697-37-2): 1000 lb TPQ
- **15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals** Nitric Acid (CAS # 7697-37-2): 1000 lb final RQ; 454 kg final RQ
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI) Nitric Acid (CAS # 7697-37-2): 1.0 % de minimis concentration

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

Nitric Acid (CAS # 7697-37-2): Extraordinarily hazardous

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

Nitric Acid (CAS # 7697-37-2): Environmental hazard Nitric Acid (CAS # 7697-37-2): Present Water (CAS # 7732-18-5): Present

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

Bismuth (III) Nitrate Pentahydrate (CAS # 10035-06-0): sn 3722 Bismuth (III) Nitrate Pentahydrate (CAS # 10035-06-0): SN 3722 500 lb TPQ (water dissociable, Category Code N511) Nitric Acid (CAS # 7697-37-2): corrosive; reactive - second degree Nitric Acid (CAS # 7697-37-2): sn 1356 Nitric Acid (CAS # 7697-37-2): SN 1356 500 lb TPQ Nitric Acid (CAS # 7697-37-2): sn 3722 Nitric Acid (CAS # 7697-37-2): 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)

Bismuth (III) Nitrate Pentahydrate (CAS # 10035-06-0): Present (DSL) Nitric Acid (CAS # 7697-37-2): Present (DSL) Water (CAS # 7732-18-5): Present (DSL)

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

Bismuth (III) Nitrate Pentahydrate (CAS # 10035-06-0): Present Nitric Acid (CAS # 7697-37-2): 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

May be corrosive to metals. Causes severe skin burns and eye damage.

Keep only in original container. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

Store locked up. Store in corrosive resistant container with a resistant inner liner.

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.

16.3. National Fire Protection Association (NFPA) Rating

Health: 3 Flammability: 0 Reactivity: 0 Special Hazard:





## 16.4. Document Revision

Last Revision Date: 9/7/2016

## 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.