



## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation** VeriSpec<sup>®</sup> As<sup>5+</sup> Standard for ICP 1000 ppm in H<sub>2</sub>O  
Manufactured and Tested in an ISO 17025/ISO 17034 Accredited Facility  
**Product Number** RV010644  
**Other Identifying Product Numbers** RV010644-100N

#### 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** 412 West Fork Drive

Arlington, TX 76012 USA

**Telephone** 888-467-4222

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

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

## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 2: Hazard(s) Identification

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

| Hazard Class    | Category    | Hazard Statements | Precautionary Statements            |
|-----------------|-------------|-------------------|-------------------------------------|
| Carcinogenicity | Category 1A | H350              | P201,P202,P280,P308+P313,P405, P501 |

#### 2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

Hazard Statements:

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

| Hazard Number | Hazard Statement |
|---------------|------------------|
| H350          | May cause cancer |

Precautionary Statements:

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

## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### Prevention

| 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.                                |

### Response

| Precautionary Number | Precautionary Statement                                   |
|----------------------|-----------------------------------------------------------|
| P308+P313            | If exposed or concerned: Get medical advice or attention. |

### Storage

| Precautionary Number | Precautionary Statement |
|----------------------|-------------------------|
| P405                 | Store locked up.        |

### Disposal

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

### 2.3. Hazards not Otherwise Classified

No other hazards identified.

### 2.4. Ingredients of Unknown Acute Toxicity

This product does not contain any ingredients of unknown acute toxicity.

## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Mixture

| Chemical Name (IUPAC)     | Common Name and Synonyms                               | CAS Number | Weight% |
|---------------------------|--------------------------------------------------------|------------|---------|
| water                     | Water                                                  | 7732-18-5  | 99.85   |
| arsenic (V) oxide hydrate | Arsenic Pentoxide Hydrate; Diarsenic Pentoxide hydrate | 12044-50-7 | 0.15    |

## SECTION 4: First-Aid Measures

### 4.1. Description of Necessary Measures

**Eye Contact:** No action required to be taken. If necessary, rinse eyes with water.

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

# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

**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.

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

May cause cancer

## 4.3. Immediate 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 in a Fire

Not considered to be a fire or explosion hazard.

### 5.3. Special Protective Equipment and Precautions 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 locked up.

## SECTION 8: Exposure Controls / Personal Protection

### 8.1. Exposure Limits

## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)

| Chemical Name             | CAS Number | Exposure Limit                                                                     |
|---------------------------|------------|------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "10 µg/m <sup>3</sup> TWA (as As)" As Arsenic, inorganic compounds<br>[RR-00065-7] |

### U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits

No limits found.

### U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)

No limits found.

### U.S. OSHA - Specifically Regulated Chemicals

| Chemical Name             | CAS Number | Exposure Limit                                                                                                                                                   |
|---------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "10 µg/m <sup>3</sup> TWA (See 29 CFR 1910.1018; except Arsine, as As); 5 µg/m <sup>3</sup> Action Level (as As)" As Inorganic arsenic compounds<br>[RR-00065-7] |

### ACGIH - Threshold Limit Values - Ceilings (TLV-C)

No limits found.

### ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

No limits found.

### ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

| Chemical Name             | CAS Number | Exposure Limit                                                                      |
|---------------------------|------------|-------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "0.01 mg/m <sup>3</sup> TWA (as As)" As Arsenic inorganic compounds<br>[RR-00065-7] |

## 8.2. Engineering Controls

No specific controls are needed.

## 8.3. Individual Protective Measures and Personal Protective Equipment

**Respiratory Protection:** Wear protective gloves and eye protection.

**Skin Protection:** Wear protective gloves and eye protection.

**Eye Protection:** Wear protective gloves and eye protection.

# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

|                                                   |                     |
|---------------------------------------------------|---------------------|
| <b>Physical State:</b>                            | Liquid              |
| <b>Color:</b>                                     | Data not available. |
| <b>Odor:</b>                                      | Data not available. |
| <b>Odor Threshold:</b>                            | Data not available. |
| <b>Melting/Freezing Point:</b>                    | Data not available. |
| <b>Boiling Point/Range:</b>                       | Data not available. |
| <b>Flammability:</b>                              | Data not available. |
| <b>Flammability/Explosive Limits:</b>             | Data not available. |
| <b>Flash Point:</b>                               | Not flammable       |
| <b>Auto-Ignition Temperature:</b>                 | Data not available. |
| <b>Decomposition Temperature:</b>                 | Data not available. |
| <b>pH:</b>                                        | Data not available. |
| <b>Kinematic Viscosity:</b>                       | Data not available. |
| <b>Solubility:</b>                                | Data not available. |
| <b>Vapor Pressure:</b>                            | Data not available. |
| <b>Evaporation Rate:</b>                          | Data not available. |
| <b>Relative Density:</b>                          | 1.00                |
| <b>Relative Vapor Density:</b>                    | Data not available. |
| <b>Particle Characteristics:</b>                  | Data not available. |
| <b>Partition Coefficient n-octanol/water, log</b> | 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

None identified.

## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 11: Toxicological Information

#### 11.1. Information on Toxicological Effects

##### Acute Toxicity - Oral Exposure:

Oral acute toxicity estimate (ATE): 3333 mg/kg(calculated)

| Chemical Name             | CAS Number | Toxicity                                                         |
|---------------------------|------------|------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | Oral LD50 Acute Toxicity Estimate 5 mg/kg (Source: Canada_WHMIS) |

##### Acute Toxicity - Dermal Exposure:

Not acutely toxic.

| Chemical Name             | CAS Number | Toxicity                                                                                               |
|---------------------------|------------|--------------------------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | Dermal LD50 Acute Toxicity Estimate 1100 mg/kg (as Arsenic Acid [7778-39-4])<br>(Source: Canada_WHMIS) |

##### Acute Toxicity - Inhalation Exposure:

Not acutely toxic.

| Chemical Name             | CAS Number | Toxicity                                                            |
|---------------------------|------------|---------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | Inhalation LC50 Acute Toxicity Estimate 0.5 mg/L 4 h (Source: ECHA) |

#### 11.2 Carcinogenicity:

##### International Agency for Research on Cancer (IARC)

| Chemical Name             | CAS Number | Classification                                                                                                                                         |
|---------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | Group 1 (Carcinogenic to Humans) - Monograph 100C [2012] As Arsenic inorganic compounds; Supplement 7 [1987]; Monograph 23 [1980] As Arsenic compounds |

##### National Toxicology Program (NTP)

| Chemical Name             | CAS Number | Classification                                                        |
|---------------------------|------------|-----------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "Known Human Carcinogen" As Arsenic, inorganic compounds [RR-00065-7] |

##### U.S. OSHA specifically regulated carcinogens

| Chemical Name             | CAS Number | Classification                                                                     |
|---------------------------|------------|------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "see 29 CFR 1910.1018 (except Arsine)" As Inorganic arsenic compounds [RR-00065-7] |



# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

## 11.3 Additional Toxicology Information:

May cause cancer.

## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

| Chemical Name | CAS Number     | Species | Exposure | Toxicity |
|---------------|----------------|---------|----------|----------|
|               | No data found. | None    | None     |          |

### 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.

# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

## 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.

## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 15: Regulatory Information

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

| Chemical Name             | CAS Number | Regulatory Information                                                                                                                                                                             |
|---------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "10 µg/m <sup>3</sup> TWA (See 29 CFR 1910.1018, except Arsine, as As); 5 µg/m <sup>3</sup> Action Level (See 29 CFR 1910.1018, except Arsine, as As)" As Inorganic arsenic compounds [RR-00065-7] |

#### 15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

| Chemical Name             | CAS Number | RQ                                                                      | TPQ                                              |
|---------------------------|------------|-------------------------------------------------------------------------|--------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "100 lb lower TPQ; 10000 lb upper TPQ" As Arsenic pentoxide [1303-28-2] | "1 lb EPCRA RQ" As Arsenic pentoxide [1303-28-2] |

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

| Chemical Name             | CAS Number | Regulatory Information                                                                            |
|---------------------------|------------|---------------------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "1 lb final RQ; 0.454 kg final RQ" As Arsenic oxide (As <sub>2</sub> O <sub>5</sub> ) [1303-28-2] |

#### 15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

| Chemical Name             | CAS Number | List               | Regulatory Information                                                                                                                                                                                                      |
|---------------------------|------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | Emission Reporting | "0.1 % de minimis concentration (includes any unique chemical substance that contains Arsenic as part of that chemical's infrastructure, listed under Chemical Category N020)" As Arsenic, inorganic compounds [RR-00065-7] |

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

| Chemical Name             | CAS Number | Regulatory Information                                       |
|---------------------------|------------|--------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "Extraordinarily hazardous" As Arsenic pentoxide [1303-28-2] |

# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

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

| Chemical Name             | CAS Number | Regulatory Information                                                                                                                                                          |
|---------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "Environmental hazard; Special hazardous substance" As Arsenic oxide (As <sub>2</sub> O <sub>5</sub> ) [1303-28-2];<br>"Environmental hazard" As Arsenic compounds [RR-00625-7] |

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

| Chemical Name             | CAS Number | Regulatory Information                                                                     |
|---------------------------|------------|--------------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "sn 0158" As Arsenic pentoxide [1303-28-2];<br>"sn 2138" As Arsenic compounds [RR-00625-7] |

## 15.08. California Proposition 65

| Chemical Name             | CAS Number | Regulatory Information                                                                                                                                       |
|---------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "carcinogen, 2/27/1987" As Arsenic, inorganic compounds [RR-00065-7]                                                                                         |
| Arsenic Pentoxide Hydrate | 12044-50-7 | "developmental toxicity, 5/1/1997" As Arsenic inorganic oxides [RR-03689-5]                                                                                  |
| Arsenic Pentoxide Hydrate | 12044-50-7 | "0.06 µg/day NSRL (inhalation, listed under Arsenic); 10 µg/day NSRL (except inhalation, listed under Arsenic)" As Arsenic, inorganic compounds [RR-00065-7] |

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

| Chemical Name             | CAS Number | List | Status                                     |
|---------------------------|------------|------|--------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | DSL  | "Present" As Arsenic pentoxide [1303-28-2] |
| Water                     | 7732-18-5  | DSL  | Present                                    |

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

| Chemical Name             | CAS Number | Status                                                                            |
|---------------------------|------------|-----------------------------------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "Present (ACTIVE)" As Arsenic oxide (As <sub>2</sub> O <sub>5</sub> ) [1303-28-2] |
| Water                     | 7732-18-5  | Present [XU] (ACTIVE)                                                             |

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

| Chemical Name             | CAS Number | List   | Number                                          |
|---------------------------|------------|--------|-------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | EINECS | "215-116-9" As Diarsenic pentaoxide [1303-28-2] |
| Water                     | 7732-18-5  | EINECS | 231-791-2                                       |

## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### 15.12. China - Inventory of Existing chemical Substances (IECSC)

| Chemical Name             | CAS Number | Status                                         |
|---------------------------|------------|------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "Present [35075]" As Arsenic oxide [1303-28-2] |
| Water                     | 7732-18-5  | Present [32224]                                |

### 15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

| Chemical Name             | CAS Number | List    | Status                                                 |
|---------------------------|------------|---------|--------------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | Annex 1 | "Present [KE-09857]" As Arsenic pentoxide [1303-28-2]  |
| Arsenic Pentoxide Hydrate | 12044-50-7 | Annex 3 | "Present (97-1-119)" As Arsenic compounds [RR-00625-7] |
| Water                     | 7732-18-5  | Annex 1 | Present [KE-35400]                                     |

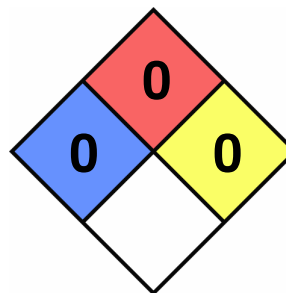
### 15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

| Chemical Name             | CAS Number | MITI No.                                         |
|---------------------------|------------|--------------------------------------------------|
| Arsenic Pentoxide Hydrate | 12044-50-7 | "(9)-2400" As Arsenic pentoxide [1303-28-2]      |
| Water                     | 7732-18-5  | - (listed on Japanese Pharmacopoeia 8th Edition) |

## SECTION 16: Other Information

### 16.1 National Fire Protection Associate (NFPA) Rating

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



### 16.2 Document Revision

**Last Revision Date:**  
 2026-05-22

## 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.