



## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation** Potassium Nitrite

**Product Number** R1287000

**Other Identifying Product Numbers** R1287000-100C2

#### 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** 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

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## SECTION 2: Hazard(s) Identification

### 2.1. Classification of the Substance or Mixture

Hazard Class	Category	Hazard Statements	Precautionary Statements
Acute Toxicity - Oral	Category 3	H301	P264,P270,P301+P310,P321,P330,P405,P501
Oxidizing Solids	Category 2	H272	P210,P220,P280,P370+P378,P501
Hazardous to the Aquatic Environment, Short-term (Acute)	Acute 1	H400	P273,P391,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
H272	May intensify fire; oxidizer
H301	Toxic if swallowed
H400	Very toxic to aquatic life

Precautionary Statements:

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

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## Prevention

Precautionary Number	Precautionary Statement
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.
P264	Wash hands, arms, and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.

## Response

Precautionary Number	Precautionary Statement
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P330	Rinse mouth.
P370+P378	In case of fire: Use dry chemical, foam, or carbon dioxide to extinguish.
P391	Collect spillage.

## 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

## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Substance

Chemical Name (IUPAC)	Common Name and Synonyms	CAS Number	Weight%
potassium nitrite	Potassium Nitrite; Nitrous acid, potassium salt (1:1)	7758-09-0	100.00



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### SECTION 4: First-Aid Measures

#### 4.1. Description of Necessary Measures

**Eye Contact:** May cause irritation, redness and pain; can lead to permanent damage if allowed to remain in contact with the eyes. Flush with plenty of water for at least 15 minutes.

**Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center.

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

**Skin Contact:** May cause irritation, redness and pain. May be absorbed through skin on prolonged exposure. Flush with water for at least 15 minutes.

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

Toxic if swallowed Strong oxidizer. Contact with flammable materials may cause fire. Heat, shock, or contact with incompatible materials may cause explosion. Harmful if swallowed, inhaled, or absorbed through skin. Causes irritation to skin, eyes, and respiratory tract. Wash areas of contact with plenty of water. EYE CONTACT: May cause irritation, redness and pain; can lead to permanent damage if allowed to remain in contact with the eyes. SKIN CONTACT: May cause irritation, redness and pain. May be absorbed through skin on prolonged exposure.

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

Not expected to require special treatment.

### SECTION 5: Fire-Fighting Measures

#### 5.1. Extinguishing Media

In case of fire: Use dry chemical, foam, or carbon dioxide to extinguish. Use water or water spray.

#### 5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

May intensify fire; oxidizer Not combustible, but substance is a strong oxidizer. Increases the flammability of any combustible material. Contact with oxidizable substances may cause extremely violent combustion. May explode when heated to 537°C (1000°F).

#### 5.3. Special Protective Equipment and Precautions for Firefighters

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### 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

Collect solid for recovery or disposal, avoiding dust generation. Water may be used to reduce airborne dust and prevent scattering. Pick up spill for recovery or disposal and place in a closed container. Dispose of in accordance with local regulations.

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## 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 physical damage. Keep in tightly closed containers in a cool, dry, well ventilated area. Empty containers may be hazardous since they retain product residues.

## SECTION 8: Exposure Controls / Personal Protection

### 8.1. Exposure Limits

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

No limits found.

#### 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

No limits found.

#### 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)

No limits found.

### 8.2. Engineering Controls

No specific controls are needed. Normal room ventilation is adequate.

### 8.3. Individual Protective Measures and Personal Protective Equipment

**Respiratory Protection:** A system of local or general exhaust is recommended. If necessary, wear a dust mask respirator to minimize exposure to dust particles.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.



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### SECTION 9: Physical and Chemical Properties

#### 9.1. Basic Physical and Chemical Properties

<b>Physical State:</b>	Solid
<b>Color:</b>	White or slightly yellow
<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>	Data not available.
<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>	1.92
<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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Cyanides, Ammonium salts, Potassium Amide, Boron, combustible materials, reducing agents.

#### 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:

Oral acute toxicity estimate (ATE): 200 mg/kg(calculated)

Chemical Name	CAS Number	Toxicity
Potassium Nitrite	7758-09-0	Oral LD50 Rat 200 mg/kg (Source: ECHA)

#### Acute Toxicity - Dermal Exposure:

Not acutely toxic.

Chemical Name	CAS Number	Toxicity
Potassium Nitrite	7758-09-0	Dermal LD50 Rat >5000 mg/kg (no deaths occurred, Source: ECHA)

#### Acute Toxicity - Inhalation Exposure:

Not acutely toxic.

Chemical Name	CAS Number	Toxicity
Potassium Nitrite	7758-09-0	Inhalation LC50 Mouse 85000 mg/m <sup>3</sup> 2 h (dust, Source: ECHA_API)

### 11.2 Carcinogenicity:

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

Chemical Name	CAS Number	Classification
		No data found.

#### National Toxicology Program (NTP)

Chemical Name	CAS Number	Classification
		No data found.

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

Chemical Name	CAS Number	Classification
		No data found.



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### 11.3 Additional Toxicology Information:

Toxic if swallowed.

## 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.



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### SECTION 14: Transportation Information

#### 14.1 Transportation by Land - Department of Transportation (DOT, United States of America)

Sizes: 100 g

UN Number: UN1488

Proper Shipping Name: Potassium Nitrite

Hazard Class: 5.1

Packing Group: II

Hazard Label(s):



#### 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)

100 g

UN1488

POTASSIUM NITRITE

5.1

II



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## SECTION 15: Regulatory Information

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

Chemical Name	CAS Number	Regulatory Information
No data found.		

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

Chemical Name	CAS Number	RQ
No data found.		

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

Chemical Name	CAS Number	Regulatory Information
No data found.		

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

Chemical Name	CAS Number	List
No data found.		

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

Chemical Name	CAS Number	Regulatory Information
No data found.		

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

Chemical Name	CAS Number	Regulatory Information
No data found.		

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

Chemical Name	CAS Number	Regulatory Information
Potassium Nitrite	7758-09-0	sn 1575

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## 15.08. California Proposition 65

Chemical Name	CAS Number	Regulatory Information
		No data found.

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

Chemical Name	CAS Number	List	Status
Potassium Nitrite	7758-09-0	DSL	Present

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

Chemical Name	CAS Number	Status
Potassium Nitrite	7758-09-0	Present [S] (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
Potassium Nitrite	7758-09-0	EINECS	231-832-4

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

Chemical Name	CAS Number	Status
Potassium Nitrite	7758-09-0	Present [36927]

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

Chemical Name	CAS Number	List	Status
Potassium Nitrite	7758-09-0	Annex 1	Present [KE-29165]
Potassium Nitrite	7758-09-0	Annex 3	"Present (97-1-167)" As Nitrous acid, salts [RR-04206-8]

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

Chemical Name	CAS Number	MITI No.
Potassium Nitrite	7758-09-0	(1)-823

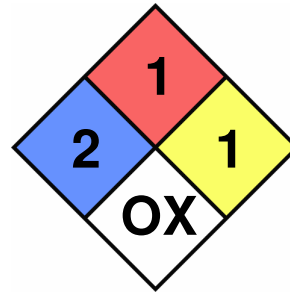
## SECTION 16: Other Information

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## 16.1 National Fire Protection Associate (NFPA) Rating

**Health:** 2  
**Flammability:** 1  
**Reactivity:** 1  
**Special Hazard:** OX



## 16.2 Document Revision

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

## 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.