



## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation** Ceric Ammonium Nitrate, ACS Reagent Grade

**Product Number** RDCC0300

**Other Identifying Product Numbers** RDCC0300-250A6, RDCC0300-500B1

#### 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 4 | H302              | P264,P270,P301+P312,P330,P501 |

#### 2.2. GHS Label Elements

Pictograms:



Signal Word: **Warning**

Hazard Statements:

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

| Hazard Number | Hazard Statement     |
|---------------|----------------------|
| H302          | Harmful if swallowed |

Precautionary Statements:

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

Prevention

| Precautionary Number | Precautionary Statement                               |
|----------------------|-------------------------------------------------------|
| P264                 | Wash hands, arms, and face thoroughly after handling. |
| P270                 | Do not eat, drink or smoke when using this product.   |

Response

| Precautionary Number | Precautionary Statement                                          |
|----------------------|------------------------------------------------------------------|
| P301+P312            | IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. |
| P330                 | Rinse mouth.                                                     |

Disposal

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

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### 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% |
|---------------------------------------------------------|--------------------------|------------|---------|
| Cerate(2-), hexakis(nitrato-O)-, diammonium, (OC-6-11)- | Ceric Ammonium Nitrate   | 16774-21-3 | 100.00  |

## SECTION 4: First-Aid Measures

### 4.1. Description of Necessary Measures

**Eye Contact:** Causes severe irritation, redness, pain, tearing and burns.

**Ingestion:** IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

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

**Skin Contact:** Causes irritation to skin, symptoms include redness, itching, and pain.

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

Harmful if swallowed DANGER! Strong oxidizer. Contact with other material may cause fire. Causes irritation to eyes, skin, and respiratory tract. Wash areas of contact with water. EYE CONTACT: Causes severe irritation, redness, pain, tearing and burns. SKIN CONTACT: Causes irritation to skin, symptoms include redness, itching, and pain. CHRONIC EFFECTS / CARCINOGENICITY: Prolonged exposures can lead to methemoglobinemia (decrease in blood's oxygen-carrying capabilities).

### 4.3. Immediate 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. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

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

Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Increases flammability of any combustible substance in contact with it. Contact with oxidizable substances may cause extremely violent combustion.

## 5.3. Special Protective Equipment and Precautions for Firefighters

Use 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 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

Ventilate area of leak or spill. Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

## 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. Keep out of direct sunlight and away from heat, water, and incompatible materials.

## SECTION 8: Exposure Controls / Personal Protection

### 8.1. Exposure Limits

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## **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>                                     | Orange-red or orange-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>                                        | N/A                         |
| <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>                          | 1.1                         |
| <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. Discolors on exposure to light.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Flammable and organic materials, reducing agents, powdered aluminum, boron phosphide, cyanides, esters, phospham, phosphorus, sodium cyanide, sodium hypophosphite, stannous chloride, and thiocyanates.

### 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): 500 mg/kg(calculated)

| Chemical Name          | CAS Number | Toxicity                                           |
|------------------------|------------|----------------------------------------------------|
| Ceric Ammonium Nitrate | 16774-21-3 | Oral LD50 Acute Toxicity Estimate 500 mg/kg (ECHA) |

##### Acute Toxicity - Dermal Exposure:

No information found.

##### Acute Toxicity - Inhalation Exposure:

No information found.

#### 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. |            |                |

#### 11.3 Additional Toxicology Information:

Harmful if swallowed.

### SECTION 12: Ecological Information

#### 12.1. Ecotoxicity

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| 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.

## SECTION 14: Transportation Information

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

**Sizes:** 250 g, 500 g

**UN Number:** UN1477

**Proper Shipping Name:** Nitrates, Inorganic, n.o.s.

**Hazard Class:** 5.1

**Packing Group:** II

**Hazard Label(s):**





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

**Sizes:** 250 g, 500 g

**UN Number:** UN1477

**Proper Shipping Name:** Nitrates, Inorganic, n.o.s.

**Hazard Class:** 5.1

**Packing Group:** II

**Hazard Label(s):**



### 14.3 Transportation of Dangerous Goods (TDG, Canada)

**Sizes:** 250 g, 500 g

**UN Number:** UN1477

**Proper Shipping Name:** NITRATES, INORGANIC, N.O.S.

**Hazard Class:** 5.1

**Packing Group:** II

**Hazard Label(s):**



## SECTION 15: Regulatory Information

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### 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               | Regulatory Information                                                                                                                                                                   |
|------------------------|------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ceric Ammonium Nitrate | 16774-21-3 | Emission Reporting | "1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)" As Aqueous ammonia from water dissociable ammonium salts and other sources [RR-47925-4] |

### 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                      |
|------------------------|------------|---------------------------------------------|
| Ceric Ammonium Nitrate | 16774-21-3 | "sn 3722" As Nitrate compounds [RR-01770-9] |

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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  |
|------------------------|------------|------|---------|
| Ceric Ammonium Nitrate | 16774-21-3 | DSL  | Present |

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

| Chemical Name          | CAS Number | Status           |
|------------------------|------------|------------------|
| Ceric Ammonium Nitrate | 16774-21-3 | Present (ACTIVE) |

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

| Chemical Name          | CAS Number | List   | Number    |
|------------------------|------------|--------|-----------|
| Ceric Ammonium Nitrate | 16774-21-3 | EINECS | 240-827-6 |

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

| Chemical Name          | CAS Number | Status          |
|------------------------|------------|-----------------|
| Ceric Ammonium Nitrate | 16774-21-3 | Present [35626] |

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

| Chemical Name          | CAS Number | List    | Status             |
|------------------------|------------|---------|--------------------|
| Ceric Ammonium Nitrate | 16774-21-3 | Annex 1 | Present [KE-09797] |

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

| Chemical Name  | CAS Number | MITI No. |
|----------------|------------|----------|
| No data found. |            |          |

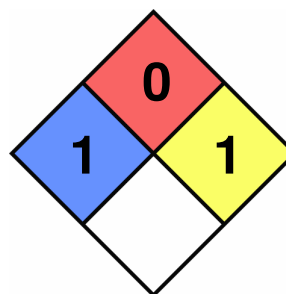
## SECTION 16: Other Information

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## 16.1 National Fire Protection Associate (NFPA) Rating

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



## 16.2 Document Revision

**Last Revision Date:**  
2026-05-24

## 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.