

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

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SAFETY DATA SHEET

Calcium Ammonium Nitrate

1. Product Identification

- **Chemical Name:** Calcium Ammonium Nitrate
- **Formula:** $5\text{Ca}(\text{NO}_3)_2 \cdot \text{NH}_4\text{NO}_3 \cdot 10\text{H}_2\text{O}$
- **Chemical Family:** Nitric acid, ammonium calcium salt
- **Common Use:** Fertilizers

2. Supplier Information

- **Supplier/Manufacturer:** COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

3. Hazard Identification

- **Classification:** Hazardous under GHS criteria
- **Hazard Categories:**
 - **Acute Toxicity (Oral) - Category 4** (Harmful if swallowed)
 - **Serious Eye Damage/Irritation - Category 1** (Causes serious eye damage)
- **Signal Word:** Danger
- **Precautionary Measures:**
 - Avoid ingestion, wear protective eyewear.
 - In case of eye contact, rinse cautiously with water and seek medical attention.

4. Composition

- **Main Chemical:** Nitric acid, ammonium calcium salt (CAS No. 15245-12-2) $\leq 100\%$

5. First Aid Measures

- **Inhalation:** Move to fresh air, seek medical help if breathing issues arise.
- **Ingestion:** Rinse mouth, drink water, and seek medical attention.
- **Skin Contact:** Wash with soap and water, remove contaminated clothing.
- **Eye Contact:** Flush with water for several minutes and seek medical attention immediately.

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6. Fire-Fighting Measures

- **Flammability: Non-flammable**
- **Hazardous Decomposition Products:** Nitrogen oxides, ammonia
- **Extinguishing Media:** Use **water flooding**, avoid foam, sand, or chemical extinguishers.

7. Accidental Release Measures

- **Precautions:** Avoid dust, ensure proper ventilation, and use protective equipment.
- **Cleanup Procedure:** Vacuum using HEPA filters and dispose of waste in accordance with local regulations.

8. Handling & Storage

- **Handling:** Use PPE, avoid ingestion and inhalation, provide ventilation.
- **Storage:** Keep in a dry, well-ventilated area, away from heat and incompatible materials.

9. Physical & Chemical Properties

- **Appearance:** White granules or prills
- **Odor:** Odorless
- **Solubility:** Highly soluble in water
- **Melting Point:** 90 - 100°C
- **pH (50 g/l solution):** 5 - 7
- **Density:** 1,040 - 1,160 kg/m³

10. Stability & Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatibilities:** Alkalis, combustible materials, organic compounds, acids.
- **Decomposition Products:** Nitrogen oxides, ammonia.

11. Toxicological Information

- **Oral LD50 (Rat):** 500 mg/kg
- **Dermal LD50 (Rat):** 2,000 mg/kg

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- **Eye Damage:** Causes severe irritation and damage.
- **Inhalation:** May cause respiratory irritation.

12. Ecological Information

- **Aquatic Toxicity:**
 - **Fish (LC50, 48h):** 447 mg/l
 - **Daphnia (EC50, 48h):** >100 mg/l
 - **Algae (LC50, 72h):** >100 mg/l
- **Environmental Fate:** Highly soluble, may contaminate water bodies.

13. Disposal Considerations

- Dispose of waste through licensed waste handlers.
- Do not discharge untreated material into the sewer system.

14. Transport Information

- **Not classified as Dangerous Goods** for transport by land, sea, or air.