

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: PRODUCT IDENTIFICATION

SECTION 2: HAZARDS IDENTIFICATION

Classification: Oxidizing Solid, Category 3

GHS Pictograms: GHS03 (Flame over circle)

Signal Word: Warning

Hazard Statements: May intensify fire; oxidizer. May cause eye and skin irritation.

Precautionary Statements: Keep away from heat, sparks, open flames. Avoid breathing dust. Wear protective equipment.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Composition: Nitrogen (N): 15.5%, Calcium (CaO): 26%

SECTION 4: FIRST AID MEASURES

Inhalation: Remove person to fresh air. If breathing is difficult, give oxygen. Seek medical attention.

Skin Contact: Wash with plenty of water and soap. Remove contaminated clothing. Seek medical attention if irritation develops.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray. DO NOT use dry chemical.

Specific Hazards: Oxidizer - may intensify fire. Emits toxic nitrogen oxides when heated.

Protective Equipment for Firefighters: Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid breathing dust. Keep away from heat sources. Wear appropriate PPE.

Environmental Precautions: Prevent entry into waterways. Avoid release to the environment.

Methods for Cleanup: Sweep up carefully. Do not mix with combustible materials.

SECTION 7: HANDLING AND STORAGE

Handling: Handle with care. Avoid dust formation. Keep away from heat and combustible materials.

Storage: Store in cool, dry area away from combustible materials and reducing agents. Keep containers tightly closed.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: No specific occupational exposure limits established.

Engineering Controls: Provide adequate ventilation.

Personal Protective Equipment: Eyes: Safety goggles. Skin: Protective gloves. Respiratory: Dust mask if needed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Oxidizer - may react vigorously with combustible materials

Chemical Stability: Hygroscopic - absorbs moisture from air. Stable when dry.

Incompatible Materials: Combustible materials, reducing agents, ammonia, strong acids

Hazardous Decomposition Products: Nitrogen oxides, calcium oxide

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Moderate toxicity. LD50 (oral, rat): 3900 mg/kg

Skin Corrosion/Irritation: May cause mild skin irritation

Serious Eye Damage/Irritation: May cause moderate eye irritation

Sensitization: Not a known sensitizer

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: Harmful to aquatic life in high concentrations

Persistence and Degradability: Readily biodegradable

Bioaccumulative Potential: Low potential for bioaccumulation

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN 1454

Proper Shipping Name: Calcium Nitrate

Transport Hazard Class: 5.1 (Oxidizing Substance)

Packing Group: III

SECTION 15: REGULATORY INFORMATION

This product contains an oxidizing substance. Handle and store accordingly.

SECTION 16: OTHER INFORMATION

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Disclaimer: The information provided in this Material Safety Data Sheet is correct to the best of our knowledge at the date of publication. This information is designed only as a guide for safe handling, use, storage, transportation, and disposal and should not be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

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