

MSDS

Calcium Nitrate (15-0-0 -19Ca)

1. PRODUCT IDENTIFICATION

Product: **Calcium Nitrate (15-0-0 -19Ca)**
State: Granules /Prills/Flakes

MANUFACTURER
Katalyst Chemical Fertilizers Industry LLC

2. Composition/Information on Ingredients

Ingredient	CAS No
Nitric Acid, Ammonium Calcium Salt	15245-12-2

3. Hazards Identification

DANGER! STRONG OXIDIZER. CONTACT WITH OTHER

MAY CAUSE FIRE. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.

Health Rating: 1-Moderate
Flammability Rating: 0- None
Reactivity Rating: 1-Severe
Contact Rating: 1 Severe
Lab Protective Equip: Goggles & shield, vent hood, proper gloves.

Acute health effects:

Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Chronic Health effects

This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Carcinogenicity

This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

4. First Aid Measures

First Aid for eye:

In case of contact, immediately flush your eyes with plenty of water for at least 15 minutes. Call a physician.

First aid for Skin:

In case of contact, flush skin with water. Wash clothing before reuse. Call a physician before reuse. Call a physician if irritation occurs.

First aid for Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid for ingestion:

If swallowed, call a physician immediately.

5. Fire and Explosion:

Flammability: Non – flammable

Auto-ignition: Not applicable

Flash point: n/a

Flammable limits: not applicable

Extinguishing media: Dry chemical, carbon dioxide, halon, water

Firefighting procedures:

Fire fighters should wear firefighting protective clothing and self-contained breathing apparatus. Use water spray from a safe distance to cool fire exposed containers. This material is an oxidizing agent and can result in vigorous reaction with oxidizable materials increasing the flammability of the adjacent combustible materials in a fire situation.

Fire/explosion Hazards:

When exposed to excess heat or flame decomposes to potassium oxide and oxygen.

6. Accidental Release Measures

Spill or leak procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. The spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

7. Handling and Storage

Storage temperatures: Ambient

Shelf life: unlimited in tightly closed containers

Special sensitivity: none

Handling/storage: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

8. Exposure Controls/Personal Protection

Eye protection: Safety glasses or goggles.

Skin protection: PVC Gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking, and using tobacco products.

Respirator: Work ambient concentration should be monitored and if the recommended exposure limits is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional protective Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

9. Physical and Chemical Properties

Appearance:

Granule/prill

Odor:

Odorless.

Solubility in water:

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

No information found.

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous polymerization: will not occur.

Incompatibilities: Heavy metals, phosphates, organic compounds, carbonaceous materials, strong acids.

Instable conditions: Excessive temperatures

Decomposition temperature: Decomposes at 270F.

Decomposition products: Nitrogen oxides

11. Toxicological Information

RTECS NUMBER: EW3000000

Routes of exposure: Eye contact, ingestion, inhalation, skin contact.

Toxicity data: Orl-rat LD50: 3900 mg/kg

Orl-rbt LD50: 500mg/24H eye irritation

Chronic toxic effects: This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Acute toxic effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

12. Ecological Information

The LC50/96hr values for fish are over 100mg/L

13. Disposal Considerations

Waste disposal should be in accordance with existing federal state and local environmental regulations.

14. Transport Information

Proper Shipping Name: Calcium Nitrate

UN/NA: 1454 **Class:** 5.1

Packing Group: III **DOT label:** Oxidizer

15. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) inventory list.

California Proposition 65: To the best knowledge, this product contains no levels of listed substances which the state of California has found to cause cancer, birth defects or other reproductive effects.

16. OTHER INFORMATION

Product use:

Agricultural use

Revision Information

No Changes

Disclaimer:

Katalyst Chemical Fertilizers Industry LLC provides the information contained here in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

This information was last updated on May 19, 2023. We have tried to make it as accurate and useful as possible, but can't take responsibility for its use, misuse, or accuracy. We have not verified this information and can't guarantee that it is up to date.

**** End of MSDS Document ***