



MSDS - Calcium Nitrate

Revision June 6, 2011

Section 1. Product Information

Trade Name: Calcinit™ Greenhouse Grade

Distributed by Pestell Minerals & Ingredients, New Hamburg, ON Canada

24 Hour Emergency Telephone (Canutec): 613-996-6666

Section 2. Hazardous Ingredients

No hazardous ingredients

Contains: Hydrated Ammonium Calcium Nitrate Double Salt (CAS# 15245-12-2)

Section 3. Physical Data

Solid (Hygroscopic)

Color: White/Off white

Odor: Odorless

Melting/Freezing Point: 116.67°C (242°F)

Specific Gravity: 1.12 (Water =1)

Bulk Density (lbs/cu.ft): 70.0 (Vibrated)/77.3 (Loose)

Solubility: Soluble in cold water

Solubility (at 20°C/68°F)

Section 4. Fire and Explosion

Flammability of Product: Non flammable

Products of Combustion: These products are nitrogen oxides, some metallic oxides

Fire Fighting Media: Use water only in flooding quantities. do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.

Special Protective Equipment: Fire fighters should wear appropriate protective equipment and self contained breathing apparatus (SCUBA) with a full face-piece operated in positive pressure mode.

Hazardous Thermal Decomposition Products: Nitrogen oxides

Section 5. Reactivity Data

Stability and Reactivity: Stable under recommended storage and handling conditions

Incompatibility: Reactive with combustible materials, acids, alkalis

Hazardous Decomposition Products: Nitrogen oxides

Section 6. Toxicological Properties

Emergency Overview: Caution! May be harmful if swallowed. Do not ingest. Wash hands thoroughly after handling.

LD50: >2100 mg/kg, oral, rat

Potential Acute Health Effects

Eyes: Slightly irritating to the eyes

Skin: Slightly irritating to the skin

Inhalation: Slightly irritating to the respiratory system

Carcinogenic Effects: No known significant effects or critical hazards

Mutagenic Effects: No known significant effects or critical hazards

Reproduction Toxicity: No known significant or critical hazards

Section 7. Preventive Measures

Accidental Release Measures

Personal Precautions: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for Cleaning Up: If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local authorities

Ecological Information (Fish (LC50) - 96hours: >100 mg/l

Toxicity of Products of Biodegradation: Not toxic

Product does not show any bioaccumulation phenomena

Handling and Storage

Handling: Avoid creating dust when handling and avoid all possible sources of ignition (spark or flame). Avoid contamination by any source including metals, dust and organic materials.

Storage: Store and use away from heat, sparks, open flame, or any other ignition source. Avoid contact with combustible materials.

Exposure Controls, Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation

to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Recommended: Safety glasses with side shields

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved

Respiratory: Use a properly fitted particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Chemical resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

>8 hour(s) (breakthrough time): butyl rubber, natural rubber (latex), nitrile rubber

Personal Protection In Case of Large Spills: Splash goggles. Full suit. Gloves. Suggested protective clothing might not be sufficient - **consult a specialist before handling this product.**

Consult local authorities for acceptable exposure limits.

Section 8. First Aid Measures

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Transportation Information

DOT Classification: Not regulated

TDG Classification: Not regulated

Not a DOT regulated material 49 CFR 172.102 Special Provision 34 specifically removes the commercial grade calcium nitrate double salt (calcium nitrate and ammonium nitrate) from the Hazardous Materials Table 49 CFR 172.101.

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