



Material Safety Data Sheet

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Based on: Commission Directive no. 2001/58/EC Regulation (EC) no. 2003/2003 of European Parliament and of Council Regulation (EC) no. 885/2004 (adoption for new EU members)		

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 Identification of the Product

Designation	Compound Fertilizer
Trade name	GROGREEN CALCI
CAS Number	35054-52-5
EINECS Name/Number	Preparation - therefore not relevant
IUPAC Name	Preparation - therefore not relevant
Molecular formula	Preparation - therefore not relevant

1.2 Application of the Product

Primary use	Prevention of Calcium deficiency in agriculture and horticulture
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1.3 Company

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1.4 Emergency calls

LIMA EUROPE NV	+32-3-844-73-70
Health Emergencies	Contact your local Poison Center

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Compositon	Nitrogen: 15,5%	CalciumOxide: 26,5%
2.2 Appearance	granular	
2.3 Formulation	5Ca(NO ₃) ₂ *NH ₄ NO ₃ *10H ₂ O	

3. HAZARDS IDENTIFICATION

Swallowing large amounts may cause vomiting and cramps.
Dust may cause irritation, coughing and choking

4. FIRST AID MEASURES

Specific Immediate Treatment

Inhalation	: Remove patient from exposure, keep warm and at rest. Obtain medical attention.
Skin Contact	: Wash skin with soap and water. Obtain medical attention.



Eye Contact : Immediately irrigate with clean water, holding the eyelids apart, for at least 20 minutes.
Obtain medical attention.

Ingestion : Wash out mouth with water and give 200-300 ml (half a pint) of water to drink.
Obtain medical attention.

Further Professional Medical Assistance
Symptomatic treatment and supportive therapy as indicated.

5. FIRE-FIGHTING MEASURES

Non-combustible
Requirements for firefighting: requirements should be determined by surrounding materials.
Ammonia may be released when heated.

6. ACCIDENTAL RELEASE MEASURES

Precautions: as a minimum use chemical resistant gloves and dust mask.
Cleaning up: shovel into well labeled containers for disposal.
Thereafter wash the spillage area with water to drain.

7. HANDLING AND STORAGE

7.1 Handling

Avoid contact with skin and eyes. Do not breath dust.

7.2 Storage

Keep in cool, dry, area with containers closed and away from strong bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Wear cotton or rubber gloves and protective cloting
If dust levels are high wear a dust mask

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Whitish granules
Molecular Mass : 756
Melting point : 170°C
Boiling point : > 220°C
Explosion temperature: 300°C

10. STABILITY AND REACTIVITY



Hazardous reactions and decompositions products
Contact with strong bases, magnesium or heat may form ammonia

All fertilizers are corrosive, but nitrate fertilizers tend to be more so than most. Following application, machinery should be thoroughly cleaned by pouring sufficient water through it to dissolve any fertilizer particles or residues.

Moving parts should be lubricated.

Nitrate solutions may be corrosive to some metals and alloys, e.g. phospho-bronze and yellow brass.

Stainless steel fittings may be required where concentrated solutions are prepared and used.

Rinse all equipment thoroughly after use.

Flush irrigation lines by irrigating for some time after the fertilizer has been applied.

Metering devices should be dismantled and thoroughly cleaned.

11. TOXICOLOGICAL INFORMATION

Inhalation	:	Dust may irritate the nose, throat and the respiratory tract and may cause coughing and choking.
Skin Contact	:	May cause irritation from abrasion.
Eye Contact	:	May cause irritation from abrasion.
Ingestion	:	Swallowing large amounts may cause vomiting and cramps.
Long Term	:	No known side effects have been associated with repeated or prolonged exposure.
LD50 (oral, rat)	:	>2100mg/kg

12. ECOLOGICAL INFORMATION

Users should ensure that they comply with local, provincial and national environmental legislation.

Environmental fate, mobility persistence, degradation and effect on effluent treatment:

Toxic to aquatic organisms in low concentrations.

LC50 (fish, 96 hours):	>100mg/l
EC50 - 24 hour - Daphnia magna [mg/l]:	55510
EC50 - 72h - Algae [mg/l]:	83

Product does not show any bioaccumulation phenomena

Biodegradability: the main components of mixture have a good biodegradability.

Ecological effects information:

No ecological problems are to be expected when the product is handled and used with due care and attention.

Prevent spillage of big quantities of the product in the environment.

Avoid discharge into drinking water supplies, waste water or soil.

Nitrates are responsible for the proliferation of algae in water, thus limiting or suppressing the development of other aquatic species (eutrophication).

Impact on domestic animals and birds: The product is not expected to harm birds and domestic animals when used properly according to directions. However, store away from children, pets, livestock and foodstuff.

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation



14. TRANSPORT INFORMATION

Non hazardous product

15. REGULATORY INFORMATION

Users should ensure that they comply with any relevant local, state or national legislation.

16. OTHER INFORMATION

All information is given in good faith but without guarantee in respect of accuracy, and, no responsibility is accepted for errors or omissions or the consequences thereof. It is the user's obligation to determine the conditions of safe use of the material

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Rumst - Belgium