

According to SANS 11014:2010 & 10234:2008

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING**Product identifier:****Identification as on the label/Trade name:** Calland**Additional information:** Product code CALN GR/01.**Relevant identification uses of the substance and uses advised against:****Identified uses:** Fertiliser.**Uses advised against:** Use only as directed.**Details of the supplier of the Safety Data Sheet:**NULANDIS, A Division of AECI Limited
14 Field Road, LILANTON**Emergency telephone numbers:**

Griffon Poison information centre: 082 446 8946

Poisons Information Helpline: 0861 555 777

Nulandis: (011) 823 8000 (o/h) Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION**Classification of the substances or mixture****The mixture is classified as not hazardous.**

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Acute toxicity oral (Category 4)	H302
Serious eye damage (Category 1)	H318

*For full text of H statements see section 16***The most important adverse effects****The most important adverse physiochemical effects:** None.**The most important adverse human health effects:** Harmful if swallowed, causes serious eye damage.

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Hazard pictograms:

Signal Word: Danger
Hazard Statements: H302 Harmful if swallowed. H319 Causes serious eye damage.

Precautionary Statements: P264 Wash thoroughly after handling. P270 Do not eat, drink when using this product. P280: Wear chemical safety goggles. P305+ P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P273 Avoid release into the environment. P391 Collect spillage. P501: Dispose of contents/container to suitable landfill in accordance with local regulations.

Special labelling of certain mixtures: None.

Other hazards: None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients: Classification non-hazardous.

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight	Classification
	EC-No.		EC1272/2008
Calcium ammonium nitrate	15245-12-2	<100%	Acute toxicity oral (Category 4) H302. Serious eye damage (Category 1) H318.
	239-289-5		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation persist.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

In case of ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if you feel unwell.

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Most important symptoms and effects, both acute and delayed:**Inhalation:** May cause irritation to respiratory tract.**Ingestion:** Harmful if swallowed.**Skin contact:** May cause skin irritation.**Eye contact:** Causes serious eye damage.**Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically.

SECTION 5. FIRE -FIGHTING MEASURE**Extinguisher media:****Suitable extinguisher media:**

SMALL and LARGE FIRE: If substance is not directly involved in the fire, use the best means available to extinguish the fire. If substance is involved in the fire, use plenty of water. Open doors and windows of the storage area to give maximum ventilation. Do not allow molten substance to run into drains

Unsuitable extinguishing media: Do not use chemical extinguishers or foams or attempt to smother the fire with steam or sand.

Special hazards arising from the mixture:

Prevent contamination of the substance by oils or other combustible materials. If water containing fertilizer enters any drains or watercourse, inform the local authorities immediately.

Advice for fire-fighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

SECTION 6. ACCIDENTAL RELEASE**Personal precautions, protective equipment and emergency procedures:**

For non-emergency personnel: Splash goggles, gloves.

For emergency responders: Splash goggles, gloves.

Environmental precautions:

Stop leak if without risk. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

Methods for containment and cleaning up:

For small spills Contain spilled material if possible. Collect in suitable and properly labelled containers.

For large spills Contain spill, sweep up, and place in well labelled container for disposal according to local regulations. Prevent entry into sewers, water courses, basements or confined areas. Use non-sparking or explosive proof means to transfer material to an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

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Additional information:

None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid breathing dust, avoid contact with skin and eyes.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area away from food stuff and animal feed. Keep container tightly closed and sealed until ready for use. Keep away from open flames, shut of the production of sources of ignition. Avoid electrical sparks, heat and static electricity.

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): None.

Biological exposure indices (BEI): None

Additional exposure limits under the conditions of use: None.

Exposure control: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Use local exhaust ventilation, or other engineering controls to maintain dust, if available maintain airborne levels below exposure limit requirements or guidelines.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Use safety goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Wear appropriate clothing for task or operation. Keep working clothes separately.

Respiratory protection: Dust mask may be required in high dust areas. In addition, respiratory protection may be required when ventilation is inadequate, or discomfort is experienced; use an approved air-purifying respirator. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties****Appearance (form):** Granules.**Colour:** White.**Odour:** Odourless.**Odour threshold:** No information available.**pH (1 % in aqueous solution):** 5.0 -7.0**Melting point/range (°C):** 100-104 °C**Boiling point/range (°C):** No information available.**Flash point (°C):** No information available.**Evaporation rate:** No information available.**Flammability (solid, gas):** Product is not flammable.**Ignition temperature (°C):** No information available.**Upper/lower flammability/explosive limits:** No information available.**Vapour pressure (20°C):** No information available.**Vapour density:** No information available.**Density:** 1.77 g/cm³**Water solubility (g/l) at 20°C:** Soluble in water.**n-Octanol/Water partition coefficient:** No information available.**Auto-ignition temperature:** No information available.**Decomposition temperature:** No information available.**Viscosity, dynamic (mPa s):** No information available.**Physical hazards:****Explosive properties:** None.**Other information:****Fat solubility (solvent-oil to be specified):** No information available.

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Bulk density: 1000-1200 kg/m³.

Dissociation constant in water (p Ka): No information available.

Oxidation-reduction potential: No information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

The product is stable under normal conditions.

Chemical stability:

Stable under normal storage conditions for 2 years.

Possibility of hazardous reactions:

No information available.

Conditions to avoid:

None known.

Incompatible materials:

Reactive with strong oxidising agents and strong bases.

Hazardous decomposition products:

Not known.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

Method: No Information available.

Dosage: No Information available.

Routes of administration: No Information available.

Results: No Information available.

Absorption: No Information available.

Distribution: No Information available.

Metabolism: No Information available.

Excretion: No Information available.

Information on toxicological effects:

Acute toxicity:

Acute oral LD₅₀ for rat >2000 mg/kg.

Chronic toxicity: No information available.

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Skin corrosion/irritation: No information available.**Serious eye damage/irritation:** No information available.**Respiratory or skin sensitization:** No information available.**Germ cell mutagenicity:** No information available.**Carcinogenicity:** No information available.**Reproductive toxicity:** No information available.**STOT-single exposure:** No information available.**STOT-repeated exposure:** No information available.**Aspiration hazard:** No information available.**SECTION 12. ECOLOGICAL INFORMATION****Toxicity:**

No information available.

Persistence and degradability:

No information available.

Bioaccumulative potential:

No information available.

Mobility in soil

No information available.

Results of PBT& vPvB assessment:

No information available.

Other adverse effects:

Product may arise from long term degradation.

SECTION 13. DISPOSAL CONSIDERATIONS**Waste treatment methods:**

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

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	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not required	Not required	Not required
UN Proper shipping name:	Not required	Not required	Not required
Transport hazard class:	Not required	Not required	Not required
Packaging group:	Not required	Not required	Not required
Marine pollutant:	No	No	No
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not required	Not required	Not required

Inland waterways: Not required

Emergency response information: Not required

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

ACGIH: American Conference of Governmental Industrial Hygienists (ACGIH)

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

GHS aligned.

Relevant classification and H statements (number and full text:

H302 Harmful if swallowed. H319 Causes serious eye damage.

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

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This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.