

# Safety Data Sheet



Hazardous, NON-Dangerous Goods

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **CalNitSol**

Recommended use: Calcium Nitrate Solution

Supplier: BioAg Pty Ltd  
ABN: 58086880211  
Street Address: 22-28 Twynam Street  
Narrandera NSW 2700 Australia  
Telephone: +61 2 6958 9911  
Facsimile: +61 2 6959 9922  
Email: sales@bioag.com.au

Emergency Telephone number: +61 428 640 070 (All Hours)

## 2. HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of Safe Work Australia GHS 7.



Signal Word  
Danger

### Hazard Classifications

Acute Toxicity - Oral - Category 4

Eye Damage - Category 1

### Hazard Statements

H302 Harmful if swallowed.  
H318 Causes serious eye damage.

### Prevention Precautionary Statements

P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P264 Wash hands and face thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves and protective clothing including eye protection.

### Response Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.  
P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
P330 Rinse mouth.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTRE or doctor.

### Storage Precautionary Statement

Not allocated

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## Disposal Precautionary Statement

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

**Poison Schedule:** Not applicable

## DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

## 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Nitric acid, ammonium calcium salt	15245-12-2	30 - 60 %
Ingredients determined to be non-hazardous		Balance
		100%

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove person from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin Contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical attention. Transport to hospital or medical centre.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious person. If vomiting occurs give further water. Immediately call Poisons Centre or doctor for medical advice.

**PPE for First Aiders:** Wear overalls, gloves, safety shoes and chemical goggles. Available information suggests that gloves made from butyl rubber and polyvinyl chloride (PVC) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically. Can cause corneal burns.

## 5. FIRE FIGHTING MEASURES

**Hazchem Code:** Not applicable

**Suitable extinguishing media:** If material is involved in a fire use flooding quantities of water.

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**Specific hazards:** Non-combustible material. Decomposes on heating and may emit toxic fumes. Containers may explode when heated. Fire or heat may produce irritating, toxic and/or corrosive fumes, including oxides of nitrogen and ammonia.

**Fire fighting further advice:** If safe to do so, move undamaged containers from path of fire. Keep containers cool with water spray until well after fire is extinguished. Firefighters to wear self-contained breathing apparatus (SCBA) and suitable protective clothing if risk of exposure to vapour or products of combustion.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust (from dried product). Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

**Dangerous Goods - Initial Emergency Response Guide No:** Not applicable

## 7. HANDLING AND STORAGE

**Handling:** Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a biological limit allocated.

**Engineering Measures:** Natural ventilation should be adequate under normal use conditions.

**Personal Protection Equipment:** OVERALLS, GLOVES, SAFETY SHOES, CHEMICAL GOGGLES



Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear overalls, gloves, safety shoes and chemical goggles. If an inhalation risk exists, wear an approved organic vapour respirator meeting the requirements of Australian Standards AS/NZS 1715 & AS/NZS 1716. Available information suggests that gloves made from butyl rubber and polyvinyl chloride (PVC) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

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**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Liquid  
**Colour:** Colourless

**Solubility:** N Av  
**Specific Gravity:** 1.00  
**pH:** 5.2 - 5.8

(Typical values only - consult specification sheet)  
N Av = Not available, N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Conditions to avoid:** Avoid contamination by any source including metals, dust and organic materials.

**Incompatible materials:** Avoid oxidising agents, reducing agents, strong acids and strong alkalis.

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced. Fire or heat may produce irritating, toxic and/or corrosive fumes, including oxides of nitrogen and ammonia.

**Hazardous reactions:** Hazardous reactions are not expected to occur.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation.

**Ingestion:** Harmful if swallowed. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** A severe eye irritant. Causes serious eye damage. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

### Acute toxicity

**Inhalation:** This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients):  $LC_{50} > 20.0$  mg/L for vapours or  $LC_{50} > 5.0$  mg/L for dust and mist.

**Skin contact:** This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients):  $LD_{50} > 2,000$  mg/Kg bw

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**Ingestion:** This material has been classified as a Category 4 Hazard. Harmful if swallowed. Acute toxicity estimate (based on ingredients):  $300 < LD_{50} \leq 2,000$  mg/Kg bw

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 1 Hazard (irreversible effects to the eyes). Causes serious eye damage. Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as not an aspiration hazard.

**Specific target organ toxicity (single exposure):** This material has been classified as not a specific hazard to target organs by a single exposure.

## Chronic Toxicity

**Mutagenicity:** This material has been classified as not a mutagen.

**Carcinogenicity:** This material has been classified as not a carcinogen.

**Reproductive toxicity (including via lactation):** This material has been classified as not a reproductive toxicant.

**Specific target organ toxicity (repeat exposure):** This material has been classified as not a specific hazard to target organs by repeat exposure.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as not hazardous for acute aquatic exposure. Acute toxicity estimate (based on ingredients):  $> 100$  mg/L

**Long-term aquatic hazard:** This material has been classified as not hazardous for chronic aquatic exposure. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients):  $>100$  mg/L, where the substance is not rapidly degradable and/or  $BCF < 500$  and/or  $\log K_{ow} < 4$ .

**Ecotoxicity:** No information available

**Persistence and degradability:** Readily biodegradable in plants and soils.

**Bioaccumulative potential:** No information available

**Mobility:** This product may move with surface or groundwater flows because its water solubility is high.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

### This material/constituent(s) is covered by the following requirements:

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth): Not applicable

AICIS Status: All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIIC).

## 16. OTHER INFORMATION

Reason for issue: 5 Yearly Revision  
Supersedes: 5-Oct-2023  
Review by: 16-May-2030

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer, it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.