

# Camlab Limited – Material Safety Data Sheet


## 1. Identification

Product Code CC/0948-CO

Product Name **CALCIUM NITRATE 4H<sub>2</sub>O pure**

Molecular Formula **Ca(NO<sub>3</sub>)<sub>2</sub>·4H<sub>2</sub>O =236.15**

CAS Number **13477-34-4**

Supplier: **CAMLAB LIMITED**  
**Norman Way Industrial Estate  
Over  
Cambridge  
England  
CB4 5WE**

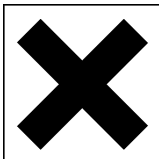
Phone **01954 233110**  
Fax **01954 233101**

Emergency Telephone **08:00-17:00 01954 233110**  
**24hr 112**  
**(Have this document to hand)**

## 2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Calcium nitrate	13477-34-4	233-332-1	> 98.0%	O Xn : R8,R20/22	N/A

## 3. Hazards Identification



Contact with combustible material may cause fire. Harmful by inhalation and if swallowed.

## 4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

Inhalation Remove from exposure.

Ingestion If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION URGENTLY.

## 5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable.

Extinguishing Media Water spray.

Unsuitable Media Nothing specified.

## 6. Accidental Release Measures

Personal Protection	Presents no major hazards.
Environmental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Major Spillage	Shovel/sweep up into container for removal Wash area down with copious amounts of water.
Minor Spillage	Wash area down with copious amounts of water.

## 7. Storage & Handling

Handling Precautions	Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.  No specific precautions.
Storage Conditions	Well ventilated, cool, dry storage . Store in a suitable area for oxidising agents. Keep well separated from combustibile materials.

## 8.1 Workplace Exposure Limits

No prescribed exposure limits available

## 8.2 Personal Protection

Respiratory	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hands	Wear gloves.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

## 9. Physical & Chemical Properties

Appearance	White deliquescent crystalline material.
Odour	No specific odour.
pH	6 @ 20 °C
Boiling point	Not available
Melting point	42.0 °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	Yes.
Vapour Pressure	Not available
Relative Density	1.8200 °C
Water Solubility	Very soluble in water.

## 10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Do not allow to impregnate wood or other organic materials.
Materials to Avoid	Combustible materials. Many organic compounds.
Hazardous Decomposition Products	Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen.

## 11. Toxicological Information

Eyes	Contact with the solid or dust may be irritating to the eyes.
Skin	The solid and solutions may be irritating to the skin.

## 11. Toxicological Information (continued)

LD50 Skin	Not available
Ingest	Low order of acute toxicity.
LD50 Ingest	Oral Rat 3900 mg/Kg
Inhalation	Presents no significant health hazard by inhalation.
Carcinogenicity	No information is available.
Mutagenicity	No information is available.
Reproductive Effects	No information is available.

## 12. Ecological

Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life.

## 13. Disposal Considerations

Disposal Methods	Do not dispose of as domestic waste.
Contaminated Packaging	Wash out containers with water.

## 14. Transport Information

Proper Shipping Name	Calcium Nitrate
UN Number	1454
UN Classification	5.1 Oxidising agent
Subsidiary Risk	None
Flash Point	Not available
Packing Group	III
Transport Category	3
Marine pollutant	No
ADR Hazard ID	50



## 15. Regulatory Information

Labelling	Oxidising, Harmful.
Classification	

Label Symbols	0		Xn	
---------------	---	--	----	--

Risk & safety Phrases Contact with combustible material may cause fire. Harmful by inhalation and if swallowed.

EEC Number 233-332-1

## 16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

Revision Date: 17/02/06.

Data reviewed and PDF file generated: 19/07/07.

Copyright 2007 Camlab Limited.