# Vickers Laboratories Ltd - Safety Data Sheet

0948

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.0 Revision date: 19 April 2021 (Replaces revision 1.1 of 16 April 2021) Date printed: 12 August 2023

## **Section 1. Identification**

1.1 Product Identifier 0948

Product Name CALCIUM NITRATE 4H2O pure

CAS Number 13477-34-4

REACH Registration No 01-2119495093-35-XXXX

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

### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

#### 1.3 Supplier Vickers Laboratories Ltd



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(Have this document to hand)

## Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

#### Classification according to regulation 1272/2008/EC

Oxidising solid, category 3 Acute toxicity, category 4 (oral) Serious eye damage/irritation, category 1 H272: May intensify fire; oxidizer. H302: Harmful if swallowed. H318: Causes serious eye damage.

### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Hazard Statements

May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye damage.

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**Precautionary Statements** 

Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

## **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Calcium nitrate 13477-34- 233-332-1 01-2119		01-2119495093-35-XXXX	5093-35-XXXX >98% Ox. Sol. 3,Acute Tox. 4 (O),Eye Dam. 1		

### Section 4. First Aid

### 4.1 Description of 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.

Personal protection for first Wear protective gloves / eye protection.

aiders

#### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

### **Section 5. Fire Fighting**

## 5.1 Extinguishing media

Extinguishing Media Water spray.
Unsuitable Media Nothing specified.

#### 5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable.

#### 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

## Section 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Presents no major hazards.

### 6.2 Environmental precautions

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.

#### 6.3 Methods and material for containment and cleaning up

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.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Γ	Component	CAS No	Concentration		Workplace I	Exposure Limits	sure Limits	
				Long Term	Long Term (8hr TWA)		Short Term 15min period)	
Γ	Calcium nitrate	13477-34-4	>98%	-	-	-	-	

Exposure data source(s) No occupational exposure data currently available.

#### 8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance White deliquescent crystalline material.

Odour No specific odour. pН 6 @ 20°C **Boiling Point** Not available Melting Point 44 °C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No. Oxidising Properties Yes.

Vapour Pressure Not applicable Relative Density 1.8200

Water Solubility Very soluble in water.

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

**10.2** Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous

reactions

No data available.

**10.4** Conditions to Avoid Do not allow to impregnate wood or other organic materials.

10.5 Incompatable Materials Combustible materials. Many organic compounds.

10.6 Hazardous Decomposition Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen.

Products

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin The solid and solutions may be irritating to the skin.

LD50 Skin Not available

Ingestion Low order of acute toxicity.

LD50 Oral 3900mg/kg Rat

Inhalation Presents no significant health hazard by inhalation.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity No information is available.

Mutagenicity No information is available.

Reproductive Effects No information is available.

## Section 12. Ecological

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

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and

degradability

No data available.

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

**12.5** Results of PBT & vPvB

assessment

Assessment not required.

**12.6** Other adverse effects None known at present.

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

Disposal Methods Do not dispose of as domestic waste.

Contaminated Packaging Wash out containers with water.

## **Section 14. Transport Information**

**14.1 UN Number** 1454

14.2 Proper Shipping Name Calcium nitrate

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 50
Tunnel Restriction Code E

14.4 Packing Group III

**14.5 Environment hazards** See section 12.

14.6 Special precautions for

**14.7 Transport in bulk** Not transported in bulk.



# Section 15. Regulatory Information

## $15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

No special precautions required.

Classification Oxidising solid, category 3; Acute toxicity, category 4 (oral); Serious eye damage/irritation, category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H272, H302, H318

May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye damage.

Precautionary Statements P280, P260, P301+P330+P331, P303+P361+P353, P304+P340, P305+P351+P338

Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

### 15.2 Chemical safety assessment

Assessment not required.

## **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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