# Vickers Laboratories Ltd - Safety Data Sheet

2013

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

Revision: 1.2 Revision date: 16 April 2021
Date printed: 03 February 2023

**Section 1. Identification** 

1.1 Product Identifier 2013

Product Name CALCIUM METAL GRANULATED

CAS Number 7440-70-2

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula Ca =40.08

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

Contact with water > flam gas, category 2 H261: In contact with water releases flammable gas.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



 **Precautionary Statements** 

Keep away from any possible contact with water, because of violent reaction and possible flash fire. Protect from moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Use dry powder for extinction. Store in a dry place. Store in a closed container.

## **Section 3. Composition**

#### 3.1 Substances

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Calcium	7440-70-2 231-179-5		98.5%	Water-react. 2

### 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. OBTAIN MEDICAL

ATTENTION URGENTLY.

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

OBTAIN MEDICAL ATTENTION URGENTLY.

Inhalation Remove from exposure. Keep warm and at rest. If conscious place in a sitting position. If there is difficulty in

breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation.

OBTAIN MEDICAL ATTENTION.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. 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 Dry graphite or appropriate metal fire extinguishing powder.

Unsuitable Media Do not allow water to come into direct contact with material.

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

Hazards Presents no specific fire danger.

### 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 Use approved personal protective equipment. Ensure no contact with water, acids or other aqueous solutions is

possible. Evacuate area immediately. Do not allow other people to enter area.

#### 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
Minor Spillage Shovel/sweep up into container for removal

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#### 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 water, acids or other aqueous solutions.

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

Store in a dry place protected against moisture and water. Keep well protected from ingress of water and well separated from acids

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term (8hr TWA)		Short Term 15min period)	
Calcium	7440-70-2	98.5%	-	-	-	-

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

#### 8.2 Exposure controls

Respiratory Protection Presents no significant inhalation health hazard.

Hand Protection Wear gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin.

Special Hazards No special precautions required.

### Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Silver-grey metallic granules. Appearance

Odour No specific odour. pН Not applicable 1482°C **Boiling Point** Melting Point 850°C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No.

Oxidising Properties No.

Vapour Pressure Not applicable Not available Relative Density

Water Solubility Sparingly 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 but decomposes in contact with water.

**10.3** Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Decomposes in water, acids and alcohols to produce highly flammable hydrogen gas.
 10.5 Incompatable Materials May detonate in contact with alkali hydroxides or carbonates and reacts with halogens.

**0.6** Hazardous Decomposition Decomposes to emit highly irritant fumes.

Product:

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes The solid and solutions will be irritating to the eyes.

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

LD50 Skin Not available

Ingestion Ingestion of large amounts may cause gastrointestinal irritation.

LD50 Oral Not available

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 None unusual.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available
Persistence and No data 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 not required.

assessment

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

### **Section 13. Disposal Considerations**

### 13.1 Waste treatment methods

Disposal Methods Small amounts may be carefully decomposed in a large excess of water. Larger quantities should be sent for

disposal by an authorised waste disposer.

## **Section 14. Transport Information**

14.1 UN Number 140114.2 Proper Shipping Name Calcium

14.3 Transport classes

UN classification 4.3
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 423
Tunnel Restriction Code D/E

14.4 Packing Group II

**14.5 Environment hazards** See section 12.

14.6 Special precautions for

use

**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 Contact with water > flam gas, category 2

Signal word Danger

Hazard Pictograms



Hazard Statements H261

In contact with water releases flammable gas.

Hazard Statements (Packs

of 100ml/g or less)

H261

In contact with water releases flammable gas.

Precautionary Statements P223, P232, P280, P335+P334, P378, P402+P404

Keep away from any possible contact with water, because of violent reaction and possible flash fire. Protect from moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Use dry powder for extinction. Store in a dry place. Store in a dry place in a dry place in a dry place in a dry place in a dry place.

in a closed container.

Precautionary Statements (Packs of 100ml/g or less)

P280, P402+P404, P232

Wear protective gloves / protective clothing / eye protection. Store in a dry place. Store in a closed container. Protect from moisture.

#### 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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