Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.1

Revision date: Date printed:

16 April 2021 03 February 2023

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Section 1. Identification

L	Product Identifier	0145
	Product Name	CALCIUM HYDROXIDE pure
	CAS Number REACH Registration No	1305-62-0 01-2119475151-45-XXXX
	Molecular Formula	Ca(OH) ₂ =74.09

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

1.1

Vickers Laboratories Ltd

Grangefield Industrial Estate Richardshaw Road Pudsey West Yorkshire LS28 6QW UNITED KINGDOM

	Phone Fax Email Website	44 0113 2362811 +44(0)113 2362703 safety@viclabs.co.uk www.viclabs.co.uk
1.4	Emergency Telephone	(08:00-16:30) +44(0) 113 2362811 (24hr) 112
		(Have this document to hand)

Section 2. Hazards Identification

CKERS

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 2 Serious eye damage/irritation, category 1 Spec target organ tox - single, category 3 H315: Causes skin irritation. H318: Causes serious eye damage. H335: May cause respiratory irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Danger

Hazard Pictograms



Hazard Statements

Causes serious eye damage. Causes skin irritation. May cause respiratory irritation.

Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If eye irritation persists: Get medical advice/attention.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Calcium hydroxide	1305-62-0	215-137-3	01-2119475151-45-XXXX	>92%	Skin Irrit. 2, Eye Dam. 1, STOT SE 3 (I)
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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. If discomfort persists OBTAIN MEDICAL ATTENTION.
Inhalation	Remove from exposure.
Ingestion	If conscious give plenty of water to drink. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION.
Personal protection for first aiders	Wear protective gloves / eye protection.

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 chemical powder.
Unsuitable Media	Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

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, protec	tive equipment and emergency procedures
Personal Protection	Use approved personal protective equipment. Avoid breathing dust. Do not allow general us safe to do so.
6.2 Environmental precautions	
Enviromental	Presents no major environmental hazard.
6.3 Methods and material for co	ntainment and cleaning up
Major Spillage	Shovel/sweep up into container for removal Wash to drain with copious amounts of water.

Minor Spillage Wash to drain with copious amounts of water.

allow general use of area until it is

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.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . 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 E	exposure Limits
			Long Term (8hr TWA)	Short Term 15min period)
Calcium hydroxide	1305-62-0	>92%	- 1.0 mg/m-3	- 4.0 mg/m

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection	Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.	
Hand Protection	Use nitrile gloves or PVC gauntlets.	
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.	
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	Fine dry white powder.
Odour	Odourless.
рН	12 @ 20°C
Boiling Point	Not available
Melting Point	>450 °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
Relative Density	2.3430
Water Solubility	Slightly soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity

Vickers Laboratories Ltd - Safety Data Sheet

No data available.

Ref: 0145

- **10.2** Chemical Stability
- Stable under normal conditions No data available.
- **10.3** Possibility of hazardous reactions
- 10.4 Conditions to Avoid
- Avoid ingress of water and contact with acids.
- Acids. Reacts violently with maleic anhydride and nitroparaffins eg nitromethane. May form toxic materials when **10.5** Incompatable Materials heated with a mixture of potassium nitrate and chlorinated phenols.
- 10.6 Hazardous Decomposition May produce hazardous fumes if involved in a fire. Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	Contact with the solid or dust will be irritating to the eyes, and may cause burns and corneal opacification.
Skin	Contact with the solid or dust will be irritating to the skin. Repeated exposure may cause dermatitis.
LD50 Skin	2500mg/kg Rabbit
Ingestion	Low order of acute toxicity. Ingestion of large amounts will cause nausea, abdominal discomfort, vomiting and diarrhoea.
LD50 Oral	2000mg/kg Rat
Inhalation	Prolonged exposure to dust or fume concentrations above the occupational exposure limits will produce irritation of the eyes, nose, throat and respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	No information is available.
Mutagenicity	No information is available.
Reproductive Effects	No information is available.
Other Information	The irritant effect provides warning that control of exposure is needed.

Section 12. Ecological

12.1	Toxicity	Small amounts present no specific environmental hazard.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	50.6mg/l Fish (96 hours)
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	Carefully neutralise with 10% hydrochloric acid, (test with litmus blue -> red), then add a large excess of water, decant the solution and run to waste. Dispose of the sand as solid waste.
Contaminated Packaging	Clean out with a weak hydrochloric acid solution then wash out thoroughly with water.

Section 14. Transport Information

14.1	UN Number	Non-restricted
14.2	Proper Shipping Name	Non-restricted
14.3	Transport classes	
	UN classification	None
	Subsidiary hazard(s)	None
	Transport category	None
	ADR Hazard ID	Non-restricted
	Tunnel Restriction Code	Non-restricted
14.4	Packing Group	None
14.5	Environment hazards	See section 12.
14.6	Special precautions for user	No special precautions required.
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)

Classification	Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 1; Spec target organ tox - single, category 3
Signal word	Danger
Hazard Pictograms	
Hazard Statements	H318, H315, H335 Causes serious eye damage. Causes skin irritation. May cause respiratory irritation.
Precautionary Statements	P264, P280, P305+P351+P338, P337+P313 Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If eye irritation persists: Get medical advice/attention.

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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