# Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.2

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

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## Section 1. Identification

L	Product Identifier	1672
	Product Name	BARIUM HYDROXIDE 8H2O pure
	CAS Number REACH Registration No	12230-71-6 01-2119495571-31-XXXX
	Molecular Formula	Ba(OH) <sub>2</sub> .8H <sub>2</sub> O =315.47

#### **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

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1.4 Emerge	ency Telephone	(24hr)	+44(0) 113 2362811 112 ument 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 1B Acute toxicity, category 4 (oral) Acute toxicity, category 4 (inhalation) H314: Causes severe skin burns and eye damage. H302: Harmful if swallowed. H332: Harmful if inhaled.

#### 2.2 Label elements

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

Signal word

Danger

Hazard Pictograms



Hazard Statements Harmful i Vickers Laboratories Ltd - Safety Data Sheet

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Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

## Section 3. Composition

#### 3.1 Substances

Component	CAS No. E	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Barium compounds (as Ba)	12230-71-		01-2119495571-31-XXXX	<100%	Skin Corr. 1B, Acute Tox. 4 (O), Acute Tox. 4 (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. If discomfort persists OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. OBTAIN MEDICAL ATTENTION URGENTLY.
Inhalation	Remove from exposure. 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.
Ingestion	Wash out the patients mouth thoroughly with water. If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.
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 MediaConsider what other flammable materials are present and act accordingly.Unsuitable MediaNothing 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

Consider all other materials in the vicinity.

## Section 6. Accidental Release Measures

Personal Protection	Avoid breathing dust-wear respiratory protective equipment. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so.
6.2 Environmental precaution	s
Enviromental	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	Shovel/sweep up into container for removal 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.

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 .

#### 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 1	5min period)
Barium compounds (as Ba)	12230-71-6	<100%	-	-	-	-

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

#### 8.2 Exposure controls

Use approved respiratory protection.
Wear PVC gloves.
Use tightly fitting chemical splash proof glasses or goggles.
Wear PVC oversuit.
No special precautions required.

## Section 9. Physical & Chemical Properties

#### 9.1 Information on basic physical and chemical properties

Appearance	White crystalline powder or granules.
Odour	No specific odour.
pH	13 @ 20°C
Boiling Point	Not available
Melting Point	380°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	2.1800
Water Solubility	5.6%

#### 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 No data available. reactions
- **10.4** Conditions to Avoid Avoid exposure to heat.
- 10.5 Incompatable Materials No specific materials to avoid. Will react with atmospheric carbon dioxide to produce the carbonate.
- **10.6** Hazardous Decomposition Not specified. Products

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes	Severe eye irritant. Risk of irreversible damage to eyes.
Skin	The powder may be an irritant on brief or occasional exposure.
LD50 Skin	Not available
Ingestion	Corrosive injury to tissues contacted. Muscle weakness, and possible severe internal injuries. Arrhythmias (deviation from normal heartbeat.) Severe abdominal pain, ringing in the ears and hypertension. Severe cases may result in death.
LD50 Oral	Not available
Inhalation	Inhalation of dust may seriously damage the membranes lining the nose, throat and upper respiratory tract.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

## Section 12. Ecological

12.1	Toxicity	Marine and/or freshwater pollutant. Do not allow to enter drinking water supplies. The following applies to Barium Compounds: biological effects; Fish, lethal from 158mg/l. Salmon lethal from 158mg/l: L.Idus LC50: 870mg/l [both as BaCl2]. Barium ions are toxic for aquatic organisms: algae: Sc. quadricauda toxic from 34mg/l: Crustaceans toxic from 29mg/l.
	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 MethodsDo not dispose of as domestic waste.Contaminated PackagingDispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and<br/>national regulations.

## Section 14. Transport Information

14.1	UN Number	3262
14.2	Proper Shipping Name	Corrosive solid, basic, inorganic, N.O.S. (Barium Hydroxide Octahydrate)
14.3	Transport classes	
	UN classification	8
	Subsidiary hazard(s)	None
	Transport category	3
	ADR Hazard ID	80
	Tunnel Restriction Code	E
14.4	Packing Group	III
14.5	<b>Environment hazards</b>	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 1B; Acute toxicity, category 4 (oral); Acute toxicity, category 4 (inhalation)	
Signal word	Danger	
Hazard Pictograms		
Hazard Statements	H302, H314, H332 Harmful if swallowed. Causes severe skin burns and eye damage. Harmful if inhaled.	
Precautionary Statements	P264, P270, P301+P312, P330 Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.	

#### 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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