# Vickers Laboratories Ltd - Safety Data Sheet

0864

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

Revision: 1.1 Revision date: 16 April 2021
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## **Section 1. Identification**

1.1 Product Identifier 0864

Product Name BARIUM CHLORIDE 2H2O pure

CAS Number 10326-27-9

REACH Registration No 01-2119502547-42-XXXX

Molecular Formula

BaCl<sub>2</sub> .2H<sub>2</sub> O =244.27

### 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

Acute toxicity, category 3 (oral) H301: Toxic if swallowed. Acute toxicity, category 4 (inhalation) H332: Harmful if inhaled.

### 2.2 Label elements

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

Signal word Danger

Hazard Pictograms



Hazard Statements Toxic if swallowed. Harmful if inhaled.

**Precautionary Statements** 

Store locked up. Do not eat, drink or smoke when using this product. Wear protective gloves / protective clothing / eye protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Avoid breathing dust / fume / gas / mist / vapours / spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

## **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Barium Chloride	10326-27- 9	233-788-1	01-2119502547-42-XXXX	<100%	Acute Tox. 3 (O),Acute Tox. 4 (I)

### 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. If

discomfort persists OBTAIN MEDICAL ATTENTION.

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.

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 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 Consider what other flammable materials are present and act accordingly.

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 Consider all other materials in the vicinity.

## Section 6. Accidental Release Measures

## 6.1 Personal precautions, protective equipment and emergency procedures

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 precautions

Environmental Motify 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

l	Component	CAS No	Concentration	Workplace Exposure Limits			
				Long Term (8hr	TWA)	Short Term 15min period)	
Ì	Barium Chloride	10326-27-9	<100%	-	-	0.5 ppm -	

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

### 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 crystalline powder or granules.

Odour No specific odour. pH 7 @ 20°C solution.

1560 °C **Boiling Point** Melting Point 960 °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 3.8560
Water Solubility 375 g/L

#### 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 No specific conditions.

10.5 Incompatable Materials No specific materials to avoid.

10.6 Hazardous Decomposition May produce hazardous fumes if involved in a fire.

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Contact with the solid or dust will be irritating to the eyes.

Skin Contact with the solid or dust will be irritating to the skin. Chronic exposure may lead to dermatitis.

LD50 Skin >2000 mg/Kg Rat

Ingestion Toxic if swallowed. May cause damage to central nervous system and kidneys. Soluble barium salts are rapidly

absorbed from the G.I. tract and are very toxic orally. Symptoms include muscular stimulation and central nervous system effects. Fatal dose in humans is reported to be 0.8-0.9g but much larger amounts have been

tolerated. Classed as an S1 poison.

LD50 Oral 619 mg/kg Rat

Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract. Inhalation of the dust can Inhalation

result in symptoms similar to those due to ingestion.

LD50 Inhalation >1.1 mg/L (air) Rat (4 hours)

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 No data available.

degradability

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

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** 1564

**14.2 Proper Shipping Name** Barium compound, N.O.S. (Barium Chloride

Dihydrate)

14.3 Transport classes

UN classification 6.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 60
Tunnel Restriction Code E

14.4 Packing Group III

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

user

**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 Acute toxicity, category 3 (oral); Acute toxicity, category 4 (inhalation)

Signal word Danger

Hazard Pictograms



Hazard Statements H301, H332

Toxic if swallowed. Harmful if inhaled.

Precautionary Statements P405, P270, P280, P301+P310, P261, P304+P340

Store locked up. Do not eat, drink or smoke when using this product. Wear protective gloves / protective clothing / eye protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Avoid breathing dust / fume / gas / mist / vapours / spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

TOXIC

### 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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