# Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 2.1 Revision date: 16 April 2021 Date printed: 03 February 2023

### **Section 1. Identification**

1.1 Product Identifier 0867

Product Name BARIUM PEROXIDE pure

CAS Number 1304-29-6

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 BaO<sub>2</sub> =169.33

#### 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 2 H272: May intensify fire; oxidizer.

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage.

Acute toxicity, category 4 (oral)

H302: Harmful if swallowed.

Acute toxicity, category 4 (inhalation)

H332: Harmful if inhaled.

Serious eye damage/irritation, category 1 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 inhaled. Harmful if swallowed. Causes severe skin burns and eye damage.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid breathing dust / fume / gas / mist /

vapours / spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves / protective clothing / eye protection / face

protection.

### **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Barium peroxide	1304-29-6	215-128-4		<100%	Ox. Sol. 2,Skin Corr. 1B,Acute Tox. 4 (O),Acute Tox. 4 (I),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. OBTAIN MEDICAL

ATTENTION.

Skin Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. In severe cases or if exposure has been great, OBTAIN

MEDICAL ATTENTION.

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 Foam, dry powder, carbon dioxide or vaporising liquids.

Unsuitable Media Do not use water jet.

#### 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. Mixtures with

finely divided combustible materials can react explosively.

### 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 Evacuate area immediately. Avoid breathing dust.

#### 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 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 to a minimum.

#### 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

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term	(8hr TWA)	Short Term 15min period)		
Barium peroxide	1304-29-6	<100%	-	-	-	-	

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 Greyish-white/dull yellow, heavy powder.

Odour No specific odour.
pH Not applicable
Boiling Point Not available

Melting Point 450 °C (Decomposition)

Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties Can form explosive mixtures with organic matter.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable

Relative Density 4.960

Water Solubility 0.91 g/L 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 starts to decompose at 700C liberating oxygen.

**10.3** Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Hot surfaces and naked flames.

10.5 Incompatable Materials Water. Alkalis. Hydrogen sulphide, powdered metals and reducing agents. Strong oxidising agents. Many organic

compounds. Combustible materials

10.6 Hazardous Decomposition Decompose with release of flammable oxygen gas.

**Products** 

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin Main health hazard is that it causes severe burns to skin and eyes.

LD50 Skin

Ingestion Harmful if swallowed. Swallowing can cause severe burns of the mouth, throat and stomach. Can cause sore

throat, vomiting,

LD50 Oral Not available

Inhalation Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract. May cause sensitisation by

dust inhalation.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity No information is available.

Reproductive Effects None identified.

### Section 12. Ecological

Low levels are readily bio-degraded in the environment. 12.1 Toxicity

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 12.4 Mobility in soil No data available.

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 Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and

national regulations.

Contaminated Packaging Wash out containers with water.

### **Section 14. Transport Information**

**14.1 UN Number** 1449

**14.2 Proper Shipping Name** Barium peroxide

14.3 Transport classes

user

UN classification 5.1
Subsidiary hazard(s) 6.1
Transport category 2
ADR Hazard ID 56
Tunnel Restriction Code E

14.4 Packing Group II

**14.5 Environment hazards** See section 12.

14.6 Special precautions for 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 Oxidising solid, category 2; Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Acute toxicity,

category 4 (inhalation); Serious eye damage/irritation, category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H272, H332, H302, H314+H318

May intensify fire; oxidizer. Harmful if inhaled. Harmful if swallowed. Causes severe skin burns and eye damage.

Precautionary Statements P210, P261, P264, P270, P271, P280

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid breathing dust / fume / gas / mist / vapours / spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves / protective clothing / eye protection / face protection.

#### 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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