Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.1 Revision date: 16 April 2021 03 February 2023 Date printed:

Section 1. Identification

Product Identifier 1673

> Product Name BARIUM OXIDE ANHYDROUS tech.

CAS Number

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.

BaO = 153.326 Molecular Formula

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

ICKERS

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Pudsey

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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 4 (oral) H302: Harmful if swallowed. Acute toxicity, category 4 (inhalation) H332: Harmful if inhaled.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms



Hazard Statements Harmful if swallowed. Harmful if inhaled.

Precautionary Statements Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves /

protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and

continue rinsing

Section 3. Composition

3.1 Substances

| Component | CAS No. | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE) |
|------------------------|-----------|-----------|-----------|----------|------------------------------------|
| Barium oxide anhydrous | 1304-28-5 | 215-127-9 | | >98% | Acute Tox. 4 (O), Acute Tox. 4 (I) |

Section 4. First Aid

4.1 Description of first aid measures

Eyes Flush with water for at least 15 minutes and contact physician.

Skin Thoroughly wash off skin with soap and water.

Inhalation Remove from exposure. Keep warm and at rest. Seek medical attention if irritation persists.

Ingestion Wash out the patients mouth thoroughly with water.

Personal protection for first Wear protective gloves / eye protection.

aider

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 Do not use carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hazards Presents no specific fire danger.

5.3 Advice for firefighters

Advice for firefighters 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. Avoid breathing dust.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil.

6.3 Methods and material for containment and cleaning up

Major Spillage Sweep up and transfer to a suitable container for disposal. Wash area down with copious amounts of water.

Minor Spillage Sweep up and transfer to a suitable container for disposal. 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 the formation or spread of dust in the air.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

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 Exposure Limits | | | | |
|------------------------|-----------|---------------|---------------------------|---|--------------|--------------------------|--|
| | | | Long Term (8hr TWA) | | Short Term 1 | Short Term 15min period) | |
| Barium oxide anhydrous | 1304-28-5 | >98% | - | - | - | - | |

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

8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to reduce dust concentrations to a minimum.

Hand Protection Wear gloves.

Eye Protection Use safety glasses with side shields.

Skin Protection 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

White powder. Appearance Odourless. Odour pН Not applicable **Boiling Point** Not applicable Melting Point 1923°C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Not applicable Auto Ignition **Explosive Properties** No. Oxidising Properties No. Vapour Pressure Not applicable

Relative Density 5.7200

Reacts exothermically with water. Water Solubility

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.

10.4 Conditions to Avoid

Avoid ingress of water and contact with acids.

10.5 Incompatable Materials

Air, Carbon Dioxide, Acid Chlorides, Acid Anhydrides, Reducing Agents.

Hazardous Decomposition

Products

Not determined.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Contact with the solid or dust may be irritating to the eyes. Skin Contact with the solid or dust may be irritating to the skin.

LD50 Skin Not available

Harmful if swallowed. Ingestion

LD50 Oral Not available

Inhalation Harmful if inhaled. Material is irritating to mucous membranes 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.

Other Information To the best of our knowledge, the chemical, physical, & toxicological properties have not been throughly

investigated.

Section 12. Ecological

12.1 Toxicity No environmetal hazard is anticipated provided that the material is handled and disposed of with due care and

attention.

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.

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 to a licensed land fill site.

Contaminated Packaging Wash out containers with water. Dispose of to a licensed land fill site.

Section 14. Transport Information

14.1 UN Number 1884

14.2 Proper Shipping Name Barium oxide

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

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

Signal word Warning

Hazard Pictograms



Hazard Statements H302, H332

Harmful if swallowed. Harmful if inhaled.

Precautionary Statements P264, P270, P280, P301+P330+P331, P303+P361+P353, P305+P351+P338

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

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.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 03 February 2023

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