

Barium Peroxide



Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

| | |
|---------------|-----------------|
| Product name: | Barium Peroxide |
| CAS Number: | 1304-29-6 |
| EC Number: | 215-128-4 |

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use: Laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

| | |
|---------------|---|
| Company name: | East Harbour Group Ltd Miranda House, The Quay Harwich, Essex, CO12 3HH United Kingdom |
| Telephone: | +44 (0) 333 242 0100 |
| Email: | info@eastharbourgroup.com |

1.4 Emergency telephone number

| | |
|----------------------|---------------|
| Emergency telephone: | 0800 246 1274 |
|----------------------|---------------|

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Oxidizing solids (Category 2), H272

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008



Signal word

Danger



Barium Peroxide

Hazard statement(s)

H272

H302 + H332

Precautionary statement(s)

P220

Supplemental Hazard Statements

May intensify fire; oxidizer.

Harmful if swallowed or if inhaled

Keep/Store away from clothing/ combustible materials.

none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher

Section 3: Composition/information on ingredients

3.1 Substances

Formula

BaO₂

Molecular weight

169.33 g/mol

CAS-No.:

1304-29-6

EC-No.:

056-001-00-1

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component

Classification

Concentration

Barium peroxide

CAS-No. 1304-29-6

EC-No. 215-128-4

Index-No. 056-001-00-1

Ox. Sol. 2; Acute Tox. 4;

H272, H302, H332

<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No data available



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Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Barium Oxide

5.3 Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and material for containment and cleaning up

Sweep up and shovel. Contain spillage, then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal, according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition –

No smoking. Keep away from heat and sources of ignition.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): strongly oxidizing hazardous materials.



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7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8: Exposure controls/personal protection

8.1 Control parameters

No additional information available

8.2 Exposure controls /

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day.

8.3 Personal protective equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards, such as NIOSH (US) or EN 166 (EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use (EN143) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure:

Do not let product enter drains.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Colour: Light Brown

Physical State

Form: Powder

Odour

No data available

Odour Threshold

No data available

pH

No data available

Melting Point/Range

No data available

Boiling Point/Range

No data available

Flash Point

Not applicable

Evaporation Rate

No data available



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| | |
|---|---|
| Flammability (solid, gas) | No data available |
| Upper/lower flammability or Explosion Limits | No data available |
| Vapor Pressure | No data available |
| Vapor Density | No data available |
| Relative Density | No data available |
| Water Solubility | No data available |
| Partition Coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidizing properties | The substance or mixture is classified as oxidizing with the category 2 |

9.2 Other safety information

No data available

Section 10: Stability and Reactivity

| | |
|--|---|
| 10.1 Reactivity | No data available |
| 10.2 Chemical Stability | Stable under recommended storage conditions |
| 10.3 Possibility of hazardous reactions | No data available |
| 10.4 Conditions to avoid | No data available |
| 10.5 Incompatible materials | Strong bases, powdered metals |
| 10.6 Hazardous decomposition products | Hazardous decomposition products formed under fire conditions – Barium Oxide. |
| Other decomposition products | No data available |

In the event of a fire: see Section 5

Section 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity – LD50 subcutaneous – Mouse 50 mg/kg (Barium peroxide)
Skin corrosion/irritation – No data available (Barium peroxide)
Serious eye damage/eye irritation – No data available (Barium peroxide)
Respiratory or skin sensitisation – No data available (Barium peroxide)
Germ cell mutagenicity – No data available (Barium peroxide)
Carcinogenicity – IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity – No data available (Barium peroxide)
Specific target organ toxicity – Single exposure – No data available
Specific target organ toxicity – Repeated exposure – No data available
Aspiration hazard – No data available (Barium peroxide)



Barium Peroxide

Additional Information – RTECS: CR0175000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, shortness of breath, headache and nausea (Barium peroxide)

Section 12: Ecological Information

| | |
|--|---|
| 12.1 Toxicity | No data available |
| 12.2 Persistence and degradability | No data available |
| 12.3 Bio accumulative potential | No data available |
| 12.4 Mobility in soil | No data available (Barium peroxide) |
| 12.5 Results of PBT and vPvB assessment | This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher |
| 12.6 Other adverse effects | No data available |

Section 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber. Highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Waste disposal of substance:

Offer surplus and non-recyclable solutions to a licensed disposal company.

Container disposal:

Dispose of as unused product.

Section 14: Transport Information

14.1 UN Number

ADR/RID: 1449

IMDG: 1449

IATA: 1449

14.2 UN proper shipping name

ADR/RID: BARIUM PEROXIDE

IMDG: BARIUM PEROXIDE

IATA: BARIUM PEROXIDE

14.3 Transport hazard class(es)

ADR/RID: 5.1 (6.1)

IMDG: 5.1 (6.1)

IATA: 5.1 (6.1)

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards

ADR/RID: No

IMDG Marine Pollutant: No

IATA: No



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14.6 Special precautions for user

No data available

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

Section 16: Other Information

Full text of H-Statements referred to under sections 2 and 3.

| | |
|-------------|------------------------------------|
| H272 | May intensify fire; oxidizer |
| H302 | Harmful if swallowed |
| H302 + H332 | Harmful if swallowed or if inhaled |
| H332 | Harmful if inhaled |

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.