



Zinc Peroxide

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

1.1 Product identifier

| | |
|---------------|---------------|
| Product name: | Zinc Peroxide |
| CAS Number: | 1314-22-3 |
| EC Number: | 215-226-7 |

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 20 Clough Road, Severalls Industrial Park Colchester, Essex, CO4 9QS 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 [EU-GHS/CLP]

Oxidizing solids (Category 1)
Skin irritation (Category 2)
Eye irritation (Category 2)
Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Contact with combustible material may cause fire. Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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2.2 Label elements



Signal word: Danger

Hazard statement(s)

H271: May cause fire or explosion; strong oxidiser.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P220: Keep/Store away from clothing/ combustible materials.

P273: Avoid release to the environment.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501: Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements: none

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)



R-phrases(s)

R8: Contact with combustible material may cause fire.

R36/38: Irritating to eyes and skin.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets.

2.3 Other hazards

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

Section 3: Composition/information on ingredients

3.2 Mixtures

| CAS # | Content (W/W) | Classification | Ingredients |
|-----------|---------------|--|---------------|
| 1314-22-3 | 50-100% | Ox. Sol. 1; Skin Irrit. 2; Eye Irrit. 2; H271, H315, H319 0, Xi, R 8 – R36/38 | Zinc Peroxide |
| 1314-13-2 | 50-100% | Aquatic Acute 1; Aquatic Chronic 1; H410 N; R50/53 | Zinc Oxide |

Chemical name: Zinc Peroxide

Common name / synonyms: Zinc Peroxide



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Section 4: First aid measures

4.1 Description of first aid measures

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

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

Prolonged or repeated exposure can cause: Reversible liver enzyme abnormalities., Diarrhoea, peptic ulcer, gastrointestinal haemorrhage, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting (Zinc peroxide)

4.3 Indication of any immediate medical attention and special treatment needed

No data available

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

Zinc/zinc oxides

5.3 Advice for firefighters

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

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.



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6.3 Methods and material for containment and cleaning up

Sweep up and shovel. Contain spillage, and 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.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure controls/personal protection

8.1 Control parameters

No information available.

8.2 Exposure controls

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

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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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 a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



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Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|-------------------------------------|--------------------------|
| Appearance | No information available |
| Physical State | Powder |
| Odour | No information available |
| Odour Threshold | No information available |
| pH | No information available |
| Melting Point/Range | 212 C |
| Boiling Point/Range | No information available |
| Flash Point | No information available |
| Evaporation Rate | No information available |
| Flammability (solid, gas) | No information available |
| Explosion Limits | No information available |
| Vapor Pressure | No information available |
| Vapor Density | No information available |
| Relative Density | 1,57 g/mL @ 25 C |
| Specific Gravity / Density | No information available |
| Bulk Density | No information available |
| Water Solubility | No information available |
| Solubility in other solvents | No information available |
| Partition Coefficient | No information available |
| Auto-ignition temperature | No information available |
| Decomposition temperature | No information available |

Section 10: Stability and Reactivity

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|--|--------------------------|
| 10.1 Reactivity | No information available |
| 10.2 Chemical Stability | No information available |
| 10.3 Possibility of hazardous reactions | No information available |
| 10.4 Conditions to avoid | No information available |
| 10.5 Incompatible materials | No information available |
| 10.6 Hazardous decomposition products | No information available |

Section 11: Toxicological Information

Product Information

11.1 Toxicological effects:

No information available

11.2 Acute Toxicity:

Potential health effects



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Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: May be harmful if swallowed

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes serious eye irritation.

11.3. Delayed and immediate effects and also chronic effects from short- and long-term exposure:

No data available

Section 12: Ecological Information

12.1 Toxicity

Ecotoxicity effects

No information available

Other adverse effects: Very toxic to aquatic life

Section 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal of substance:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Container disposal:

Dispose of as unused product.

Section 14: Transport Information

UN Number:

ADR/RID: 1516

IMDG:1516

IATA:1516

UN proper shipping name:

ADR/RID: ZINC PEROXIDE

IMDG: ZINC PEROXIDE

IATA: Zinc Peroxide

Transport hazard class(es):

ADR/RID: 5.1

IMDG:5.1

IATA:5.1

Packaging group:

ADR/RID: II

IMDG: II

IATA: II

Environmental hazards:

ADR/RID: Yes

IMDG: Marine pollutant: yes

IATA: No

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.



Zinc Peroxide

Section 15: Regulatory Information

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

Section 16: Other Information

| | |
|-----------------|--|
| Aquatic Acute | Acute aquatic toxicity |
| Aquatic Chronic | Chronic aquatic toxicity |
| Eye Irrit. | Eye irritation |
| H271 | May cause fire or explosion; strong oxidiser |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H410 | Very toxic to aquatic life with long lasting effects |
| Ox. Sol. | Oxidizing solids |
| Skin Irrit. | Skin irritation |
| N | Dangerous for the environment |
| O | Oxidising |
| R8 | Contact with combustible material may cause fire. |
| R36/38 | Irritating to eyes and skin |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| Xi | Irritant |