

Conforms to 93/112/EC and ISO 11014-1 - United Kingdom (UK)

## SAFETY DATA SHEET

ZINC OXIDE

mzox001

### 1. Identification of the substance/preparation and of the company/undertaking

Product name : ZINC OXIDE Supplier : The Soap Kitchen  
Unit 2 D&E Hatchmoor Industrial Estate,  
Torrington,  
Devon, EX38 7HP  
Tel:01805 622944 email:  
info@thesoapkitchen.co.uk

Chemical formula : ZnO

Formula : ZnO Molecular Mass : 81.3

### 2. Composition/information on ingredients

Substance/preparation : Substance

Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) ZINC OXIDE	1314-13-2	100	215-222-5	N	R50/53

\* Occupational Exposure Limit(s), if available, are listed in Section 8

Composition : CONTAINS 99% (MIN) ZINC OXIDE.  
CAS No. : 1314-13-2  
EINECS Number : 215-222-5

### 3. Hazards identification

Physical/chemical Hazards : Not classified as hazardous according to CHIP regulations.  
Environmental hazards : Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

### 4. First-aid measures

#### First-Aid measures

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.  
Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.  
Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation persists, seek medical attention.  
Eye Contact : In case of contact, immediately flush eyes with a copious amount of water. Get medical attention if irritation occurs.

#### Effects and symptoms

Inhalation : Very slightly hazardous in case of inhalation.  
Skin contact : Very slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.  
Eye Contact : Very slightly hazardous in case of eye contact (irritant).

### 5. Fire-fighting measures

#### Extinguishing Media

Suitable : Select extinguishing agent appropriate for other materials in fire.  
SMALL FIRE: Use DRY chemical powder or CO2.  
LARGE FIRE: Use water spray, fog or foam.

Special fire-fighting procedures : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

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**6. Accidental release measures**

- Personal Precautions** : Splash goggles. Protective overalls/suit. Dust respirator. Boots. Gloves. If there is a significant airborne concentration then suitable breathing apparatus should be used to avoid inhalation of the product. Select appropriate protective clothing for the size of the spillage.
- Environmental precautions and cleanup methods** : Use a non-sparking shovel to put the material into a suitable waste disposal container.

**7. Handling and storage**

- Handling** : Avoid contact with eyes and skin. If possible, avoid creation and/or inhalation of dust. After handling, always wash hands thoroughly with soap and water.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended use** : Use original container.

**8. Exposure controls/personal protection**

- Engineering measures** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Hygiene measures** : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name	Workplace Exposure Limits
0) ZINC OXIDE	EH40 (United Kingdom (UK)). OES: 5 mg/m <sup>3</sup> Period: 8 hour(s). Form: Fume OES: 10 mg/m <sup>3</sup> 0 times per shift, Period: 15 minute(s). Form: Fume

**Personal protective equipment**

- Respiratory system** : Dust respirator. Be sure to use an approved/certified respirator or equivalent.
- Skin and body** : Overalls or Lab coat.
- Hands** : Gloves.
- Eyes** : Splash goggles.

**9. Physical and chemical properties**

- Physical state** : Solid. (Powdered solid.)
- Colour** : White.
- Odour** : Odourless.
- Melting point** : 1975°C (3567°F)
- Density** : Not available.
- Solubility** : Insoluble in cold water.
- pH** : 9 to 10 (Basic.)
- Flash point** : Not applicable

**10. Stability and reactivity**

- Stability** : The product is stable.
- Materials to avoid** : Reactive with acids, alkalis.

**11. Toxicological information**

**Local effects**

- Skin irritation** : Very slightly hazardous in case of skin contact (irritant).
- Eye irritation** : Very slightly hazardous in case of eye contact (irritant).
- Acute toxicity** : Acute oral toxicity (LD50): >2000 mg/kg (Rat).

**12. Ecological information**

- Ecotoxicity** : Ecotoxicity in water:  
(LC50): 1.1 mg/l, 96 hours [Fish (ONCORHYNCHUS MYKISS)].  
(EC50): >1000 mg/l, 48 hours [Daphnia (daphnia)].
- Toxic to aquatic organisms.

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**13. Disposal considerations**

Methods of disposal ; Waste of residues ; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Classification : Not applicable.

**14. Transport information**

International transport regulations

UN : UN number 3077  
UN : Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS (ZINC OXIDE)  
UN : Class 9  
UN : Packing group III  
UN : Label 

ADR/RID : Class 9  
IMDG : Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS (ZINC OXIDE)  
IMDG : Packing group III

IATA : Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS (ZINC OXIDE)  
IATA : Packing group III  
IATA : Class 9  
IATA : Additional information -

**15. Regulatory information**

EU Regulations

Hazard symbol(s) :



Classification : Dangerous for the environment  
Risk Phrases : R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Safety Phrases : S60- This material and its container must be disposed of as hazardous waste. S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.  
Product Use : Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.  
- Consumer applications.

**16. Other information**

HISTORY

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Prepared by : Michael Hale / Alistair Hunter

Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

CHANGES SINCE PREVIOUS VERSIONS:

RE-CLASSIFICATION HAS TAKEN PLACE FOR THIS PRODUCT, FROM A NON-REGULATED CHEMICAL TO DANGEROUS FOR THE ENVIRONMENT R50/53.

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