SECTION 1: Identification

1.1 Product identifier

Product name: Zinc Oxide
Product number: chem-82
Brand: Bulk Apothecary

1.4 Supplier's details

Name: Bulk Apothecary
Address: 115 Lena Dr
          Aurora OH 44202
          United States
Telephone: 1-888-728-7612
email: sales@bulkapothecary.com

1.5 Emergency phone number(s)

Domestic: 1-800-633-8253  International: 801-629-0667

SECTION 2: Hazard identification

General hazard statement
May cause eye and skin irritation.

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

2.2 GHS label elements, including precautionary statements

Hazard statement(s)
H320  Causes eye irritation

Precautionary statement(s)
New P-code  New precautionary statement

SECTION 3: Composition/information on ingredients
3.2 Mixtures

Hazardous components

1. Zinc oxide
Concentration
95 % (weight)
EC no.
215-222-5
CAS no.
1314-13-2
Index no.
030-013-00-7

- Hazardous to the aquatic environment, short-term (acute), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic), Cat. 1

H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled
Move exposed person to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.

In case of skin contact
In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur.

In case of eye contact
Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

If swallowed
Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

4.2 Most important symptoms/effects, acute and delayed
No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use an extinguishing agent suitable for the surrounding fire.

5.2 Specific hazards arising from the chemical
Safety Data Sheet
Zinc Oxide

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment (see Section 8).

6.2 Environmental precautions
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up
Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Zinc oxide fume (CAS: 1314-13-2)
   PEL (Inhalation): 5 mg/m³ (OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   PEL (Inhalation): 5 mg/m³, (ST) 10 mg/m³ (Cal/OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   REL (Inhalation): 5 mg/m³, (ST) 10 mg/m³ (NIOSH)
   OSHA Annotated Table Z-1, www.osha.gov

2. Zinc oxide (CAS: 1314-13-2)
   PEL (Inhalation): See PNOR (Cal/OSHA)
   OSHA Annotated Table Z-1, www.osha.gov

3. Zinc oxide, Total dust (CAS: 1314-13-2)
   PEL (Inhalation): 15 mg/m³ (OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   PEL (Inhalation): 10 mg/m³ (Cal/OSHA)
   OSHA Annotated Table Z-1, www.osha.gov

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4. Zinc oxide, Respirable fraction (CAS: 1314-13-2)
PEL (Inhalation): 5 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
PEL (Inhalation): 5 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov
PEL (Inhalation): 2 mg/m³, (ST) 10 mg/m³ (ACGIH)
OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls
Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection
Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/form (physical state, color, etc.)</td>
<td>White powder</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>Neutral</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>1975°C (3587°F)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability limits</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>5.8</td>
</tr>
<tr>
<td>Relative density</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 10: Stability and reactivity

10.1 Reactivity
The product is stable.

10.5 Incompatible materials
Chlorinated rubber: Violent reaction or explosion with zinc oxide at 215 °C.
Flax oil: Exothermic reaction with possibility of ignition.
Magnesium: If heated: explosive reaction.
Strong bases and acids: Possibility of violent reaction.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
There is no data available.

SECTION 12: Ecological information

Toxicity
Water polluting material. May be harmful to the environment if released in large quantities.

SECTION 13: Disposal considerations

Disposal of the product
The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

DOT (US)
Not regulated.
IMDG
UN Number: UN3077
Proper Shipping Name: Zinc Oxide

IATA
Not regulated.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components
Chemical name: Zinc oxide
CAS number: 1314-13-2

New Jersey Right To Know Components
Common name: ZINC OXIDE
CAS number: 1314-13-2

Pennsylvania Right To Know Components
Chemical name: Zinc oxide
CAS number: 1314-13-2

15.2 Chemical Safety Assessment
This material is exempted.

SECTION 16: Other information

16.1 Further information/disclaimer
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