

Safety Data Sheet

According to: The Regulations for Hazardous Chemical Agents, 2021 and Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev. 9.



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TEL: | +27 18 293 1028 | +27 18 285 1014

Reg. No. 1974/000531/07

PO Box 1097 | Potchefstroom | 2520 | South Africa

11 Jasper vd Westhuizen Str | Potchindustria | Potchefstroom | 2531

Agricultural division:  

SECTION 1: Identification of the substance / mixture and of the supplier

1.1 Product identifiers

Product (trade) name : Zinc Sulphate Monohydrate
Act No. 36 of 1947 Registration number : B4203 (Fertilizer) / V23441 (Feed)
Grade : Fertilizer / Feed
Product range : Fertion (Fertilizer) / Animade (Feed)
Synonyms : Zinc vitriol; white vitriol; sulphuric acid zinc salt.

1.2 Relevant identified uses of the substance or mixture and restrictions on use

Relevant identified uses

Used in the manufacturing of animal feeds and fertilizers.

Restrictions on use

Avoid release into the environment; use personal protective equipment.

1.3 Details of the supplier of the safety data sheet

Company : Kimleigh Chemicals SA (Pty) Ltd
Address : 11 Jasper van der Westhuizen Street, Potchindustria, Potchefstroom 2531, North West province, South Africa
Telephone : +27 18 293 1028; +27 18 285 1014
E-mail address : sheq@kimleigh.co.za

1.4 Emergency telephone number

Emergency phone number: +27 18 293 1028; +27 18 285 1014

Monday to Thursday from 7:00 a.m. to 5:00 p.m.; Friday from 7:00 a.m. to 14:00 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev.9 and Regulation (EC) No 1272/2008

| GHS Hazard class | GHS Hazard category | GHS Hazard statement codes |
|---|---------------------|----------------------------|
| Acute toxicity (Oral) | 4 | H302 |
| Serious eye damage / irritation | 1 | H318 |
| Hazardous to the aquatic environment, short-term (Acute) | 1 | H400 |
| Hazardous to the aquatic environment, long-term (Chronic) | 2 | H411 |

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2.2 Label elements

Labelling according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev.9 and Regulation (EC) No 1272/2008

| | | | |
|----------------|--------|--|--|
| Pictogram(s) | | | |
| Signal word(s) | Danger | | |

Hazard statement(s)

H302 : Harmful if swallowed.
H318 : Causes serious eye damage.
H400 : Very toxic to aquatic life.
H411 : Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P264 + P265 : Wash hands thoroughly after handling. Do not touch eyes.
P270 : Do not eat, drink or smoke when using this product.
P273 : Avoid release to the environment.
P280 : Wear protective gloves / protective clothing / eye protection / face protection / hearing protection.
P301 + P317 + P330 : IF SWALLOWED: rinse mouth and get medical help.
P305 + P317 + P338 + P354 : IF IN EYES: immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
P391 : Collect spillage.
P501 : Dispose of contents/container in accordance with national regulations.

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

3.1 Substances

Chemical identity : Zinc sulphate monohydrate
(IUPAC / CAS name)
Common name : Zinc sulphate monohydrate
Synonyms : Zinc vitriol; white vitriol; sulphuric acid zinc salt.
Formula : ZnSO₄·H₂O

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Molecular weight : 179.45 g/mol
Appearance : White / beige free-flowing powder, odourless
Purity : ≥ 98 % w/w; Zinc (Zn) as 35 % min.

| Compound | Concentration | CAS No. | EC No. | Index No. |
|---------------------------|---------------|-----------|-----------|--------------|
| Zinc sulphate monohydrate | ≤ 100 % | 7446-19-7 | 231-793-3 | 030-006-00-9 |

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General advice

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

If inhaled

Following inhalation, move the affected person to fresh air. If not breathing, give artificial respiration. If difficulty breathing, give oxygen. Seek medical attention immediately.

In case of skin contact

In case of contact, immediately rinse skin with copious amounts of cold water, while removing contaminated clothes and shoes. Cover the irritated skin with an emollient. Wash exposed clothing and shoes before reuse. Seek medical attention if irritation persists.

In case of eye contact

In case of contact, remove any contact lenses and rinse eyes with copious amounts of water for at least 15 minutes. Cold water may be used. Seek immediate medical attention.

If swallowed

Following ingestion, rinse mouth with copious amounts of water. Seek immediate medical attention. Do not induce vomiting unless directed otherwise by a medical practitioner. Never administer anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

If inhaled

Coughing; dry throat; irritation of nasal and respiratory passages; shortness of breath.

In case of skin contact

Not a skin irritant.

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In case of eye contact

Redness; watering; itching; blurred vision.

If swallowed

Metallic taste in mouth; thirst; nausea; vomiting; headaches; chills; fever; sweats; muscle aches.

After ingestion of large quantities: fatigue; weakness; bronchitis; pneumonia with a bluish tint to the skin; reversible liver enzyme abnormalities.

4.3 Indication of any immediate medical attention and special treatment needed

Physician should treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use dry chemicals, carbon dioxide (CO₂), alcohol-resistant foam, water spray or fog. The product is non-combustible.

Unsuitable extinguishing media

No limitations on extinguishing agents are available.

5.2 Special hazards arising from the substance or mixture

Produces oxides of zinc and sulphur on combustion or thermal decomposition.

5.3 Special PPE and precautions for firefighters

In the event of fire, wear positive-pressure self-contained breathing apparatus and appropriate protective clothing. Prevent fire extinguishing water from contaminating surface and ground water reservoirs by containing and keeping the run-off water separate.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear respiratory protection. Avoid dust formation. Avoid inhalation of dust, vapours, mist or gas. Ensure adequate ventilation. Avoid contact with skin and eyes. Evacuate personnel to safe areas.

For personal protection, please see section 8.

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6.2 Environmental precautions

Avoid release into the environment. Do not discharge into drains, sewage systems or onto the ground. Avoid spillage or run-off entering drains, sewage systems or watercourses. Immediately report uncontrolled spillage or discharges to an appropriate regulatory body.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect dry powder using a special dust vacuum cleaner or carefully sweep into suitable waste disposal container and seal securely. Avoid generating dust. Label the container appropriately and remove from the area as soon as possible.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle with care in accordance with good industrial hygiene and safety practices. Do not swallow or inhale dust, spray, mist or vapours. Avoid contact with eyes, skin and any form of ingestion. Avoid the formation of dust and aerosols. Wear suitable protective clothing such as overalls, boots, rubber gloves, safety goggles, nose and mouth protection. Wash contaminated clothing daily. Provide appropriate ventilation where dust formation might occur. If skin or eye contact occurs, wash thoroughly with water.

Do not eat, drink or smoke when using this substance. Avoid contamination of food, foodstuffs, eating utensils and drinking water by washing-up before entering eating areas. Do not discharge product residues into the environment.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in an airtight container in a cool, dry and well-ventilated place. Keep away from food, foodstuffs, incompatible substances, steel structures or steel components. Close container tightly after opening.

Store only in sealed polypropylene or stainless-steel containers. Minimize dust generation and accumulation. Store away from direct sunlight, moisture, heat and oxidisers.

Moisture sensitive; hygroscopic; handle and store under inert gas, if possible.

Store under lock and key, and keep out of reach of children, uninformed persons and livestock.

Storage class (TRGS 510) : Non-combustible Solids

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SECTION 8: Exposure controls / Personal protection

8.1 Control parameters

Occupational exposure limits (OEL)

No occupational exposure limits available for Zinc sulphate monohydrate.

8.2 Appropriate engineering controls

Provide adequate general and local exhaust ventilation to ensure that the airborne levels remain below the recommended exposure limits. Mechanical ventilation should be used if dust formation occurs. Avoid contact with eyes, skin and clothing. Wash hands immediately after handling the product. Comply with good industrial hygiene practices. Provide an eyewash station and a safety shower in case of emergency.

8.3 Personal protective equipment

- Eye/Face protection : Use a face shield and tightly fitting safety goggles as equipment for eye/face protection that are approved under appropriate governmental standards such as NIOSH (US) or EN 166 (EU).
- Skin protection : Wear nitrile rubber gloves when handling the substance. Gloves must be inspected prior to use and properly removed after handling this substance, to prevent skin contact. Dispose of contaminated gloves after use in accordance with applicable regulatory guidelines and good laboratory practices. Wash and dry hands. Wear safety boots as well.
Recommendations for gloves:
Nitrile rubber; thickness > 0.11 mm; breakthrough time > 480 minutes.
- Body protection : Use a full acid resistant suit protecting against chemicals.
- Respiratory protection : Wear an appropriate dust respirator when ventilation is inadequate. Use a full-face particle respirator fitted with an N99 (US) or type P2 (EN 143) filter cartridge.
- Control of environmental exposure : Do not let the substance enter drains or sewage systems and prevent leakages or spillage or any form of discharge into the environment. Do not allow the substance to contaminate ground water systems.

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SECTION 9: Physical and chemical properties

| | |
|--|--|
| Physical state | : Free-flowing powder |
| Colour | : White / beige |
| Odour | : Odourless |
| pH | : No data available |
| Melting point/freezing point | : 229 °C |
| Initial boiling point and boiling range | : No data available |
| Flammability | : Not flammable |
| Lower and upper explosion limit / flammability limit | : No data available |
| Flash point | : Not applicable. The substance is an inorganic solid. |
| Auto-ignition temperature | : No data available. |
| Decomposition temperature | : No data available. |
| Kinematic viscosity | : No data available. |
| Solubility | : Soluble in water at 210 g/L at 20 °C. |
| Partition coefficient (n-octanol/water) | : Not applicable. The substance is an inorganic solid. |
| Vapour pressure | : Not applicable. Substance is a solid. |
| Density | : 3.35 g/cm ³ at 20 °C |
| Relative vapour density | : Not applicable. Substance is a solid. |
| Particle characteristics | : < 500 µm. |

SECTION 10: Stability and reactivity

10.1 Reactivity

The substance is hygroscopic.

10.2 Chemical stability

The substance is chemically stable under standard ambient conditions (room temperature). No decomposition will occur if the substance is used and stored according to specifications.

10.3 Possibility of hazardous reactions

No data available on this.

10.4 Conditions to avoid

Exposure to moisture and heat. Avoid dust formation.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents, alkali metals, alkaline earth metals, lead, calcium, strontium salts and borax.

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10.6 Hazardous decomposition products

Zinc and sulphur oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev.9, The National Institute for Occupational Safety and Health (NIOSH) and Regulation (EC) No 1272/2008

Acute toxicity:

| Route of exposure | Dose / concentration; test subject | Numerical measures | ATE Actual / Converted |
|-------------------|------------------------------------|--------------------|------------------------|
| Ingestion (oral) | LD ₅₀ ; mice | 926 mg/kg bw | 926 mg/kg bw |
| Inhalation | No data available | No data available | No data available |
| Dermal | LD ₅₀ ; rat | > 2000 mg/kg bw | 2500 mg/kg bw |

Skin corrosion / irritation:

Rabbit skin clipped sites (5 cm²) – 0.5 g moistened (72-h exposure)

Result – No skin irritation; therefore, not a skin irritant.

OECD Test Guideline 404

Serious eye damage / eye irritation:

White rabbit eyes – 98.1 mg into conjunctival sac (21-day exposure)

Result – Corneal opacity or epithelial damage observed, conjunctival redness, chemosis and discharge observed in all the test animals; therefore, a serious eye irritant.

OECD Test Guideline 405

Respiratory or skin sensitization:

No data available for respiratory sensitization.

For skin sensitization:

Guinea pig maximisation test: intradermally injected with 0.1% and epidermally exposed to 50% (48 h exposure).

Result – Negative; therefore, not sensitizing.

OECD Test Guideline 406

Germ cell mutagenicity:

The Ames test *in vitro* using *Salmonella typhimurium*

Result – Negative; therefore, no mutagenicity.

GLP compliant

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Carcinogenicity:

No data is available for Zinc sulphate monohydrate in this regard.

Reproductive toxicity:

No reliable data is available for Zinc sulphate monohydrate in this regard.

Specific target organ toxicity (STOT) - single exposure:

No data is available for zinc sulphate monohydrate in this regard.

Specific target organ toxicity (STOT) - repeated exposure:

No data is available for zinc sulphate monohydrate in this regard.

Aspiration hazard:

No data is available for zinc sulphate monohydrate.

11.2 Additional Information

Zinc is essential for human growth and development, neurological functions and immunocompetence. In fact, the main clinical manifestations of zinc deficiency adversely affect growth retardation, sexual maturation and infection susceptibility (ECHA, 2022).

SECTION 12: Ecological information

12.1 Toxicity

Classification according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev.9, The National Institute for Occupational Safety and Health (NIOSH) and Regulation (EC) No 1272/2008

| Type of toxicity | Dose / concentration administered | Numerical measures | References |
|------------------------------------|--|---|------------|
| Short-term (acute) aquatic hazard | LC ₅₀ in Fish EC ₅₀ in Crustacea EC ₅₀ in Algae | 0.17 mg Zn/L/96h 0.15 mg Zn/L/72h 0.14 mg Zn/L/72h | ECHA, 2022 |
| Long-term (chronic) aquatic hazard | NOEC in Fish NOEC in Crustacea NOEC in Algae | 0.044 - 0.530 mg Zn/L 0.037 – 0.400 mg Zn/L 0.019 mg Zn/L | ECHA, 2022 |

12.2 Persistence and degradability

Biodegradation tests are not applicable to inorganic substances like zinc. As an alternative, the concept of "removal from the water column" was developed. Rapid removal (defined as > 70% removal within 28 days) is considered equivalent to rapid degradability. Zinc is rapidly removed from the water column; therefore, Zinc is considered as equivalent to being rapidly degradable for the purpose of chronic aquatic classification (ECHA, 2022).

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12.3 Bioaccumulative potential

Due to homeostatic control measures, Zinc sulphate monohydrate is unlikely to bioaccumulate.

12.4 Mobility in soil

Seeing as this substance is rapidly removed from the water column, it spreads easily throughout the environment via water systems.

12.5 Other adverse effects

Care should be taken to minimize the amount of Zinc sulphate monohydrate released into the environment. Even though Zinc is an essential micronutrient for healthy plant growth, it can be harmful to Zinc-sensitive plants in higher quantities.

This substance does not contribute to ozone depletion, ozone formation, global warming or acidification.

SECTION 13: Disposal considerations

The generation of waste should be restricted or minimized wherever possible. Any form of discharge or leakage into the environment, should be avoided. Do not dispose of this substance in the drain. Dispose of this substance in accordance with the regulations stipulated in the National Environmental Management Waste Act 2008 of South Africa.

SECTION 14: Transport information

| | Land transport (UN TDG/ADR) | Sea transport (IMDG) | Air transport (IATA-DGR) |
|---------------------------------|---|---|---|
| 14.1 UN Number | 3077 | 3077 | 3077 |
| 14.2 UN Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (includes Zinc sulphate monohydrate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (includes Zinc sulphate monohydrate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (includes Zinc sulphate monohydrate) |
| 14.3 Transport hazard class(es) | 9 | 9 | 9 |
| 14.4 Packing group | III | III | III |
| 14.5 Environmental hazards | Yes | Marine pollutant: yes | Yes |

14.6 Transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

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14.7 Special precautions for user

Ensure that packaging remains intact. Dust formation should be restricted wherever possible.

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements stipulated in The Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 9th revised edition, United Nations: New York and Geneva, 2021.

National legislation

Occupational Health and Safety Act, 1993 - Hazardous Chemical Agent Regulations 2021.

Other regulations

European Agency for Safety and Health at Work (OSHA) guidelines.

The National Institute for Occupational Safety and Health (NIOSH) guidelines.

15.2 Chemical Safety Assessment

No chemical safety assessment was carried out for this substance.

SECTION 16: Other information

List of abbreviations

| | |
|------------------|---|
| ADR | : European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | : Acute toxicity estimate |
| bw | : Body weight |
| CAS | : Chemical Abstracts Service |
| EC | : European Community |
| ECHA | : European Chemicals Agency |
| EN | : European Nations |
| EU | : European Union |
| GHS | : Globally Harmonised System of Classification and Labelling of Chemicals |
| GLP | : Good laboratory practice |
| IATA | : International Air Transport Association |
| IMDG | : International Maritime Dangerous Goods |
| IMO | : International Maritime Organization |
| IUPAC | : International Union of Pure and Applied Chemistry |
| LC ₅₀ | : Lethal Concentration to 50% of a test population |
| LD ₅₀ | : Lethal Dose to 50% of a test population (Median Lethal Dose) |

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| NIOSH | : The National Institute for Occupational Safety and Health |
| No. | : Number |
| NOEC | : No observed effect concentration |
| OECD | : Organisation for Economic Co-operation and Development |
| OEL | : Occupational exposure limit |
| OSHA | : The Occupational Safety and Health Administration |
| PBT | : Persistent, bioaccumulative and toxic |
| Pow | : Partition coefficient n-Octanol/Water |
| PPE | : Personal protective equipment |
| REACH | : Registration, evaluation, authorisation and restriction of chemicals |
| STOT | : Specific target organ toxicity |
| TDG | : Transport of Dangerous Goods |
| UK | : United Kingdom |
| UN | : United Nations |
| US | : United States |
| vPvB | : Very persistent and very bioaccumulative |

References:

ECHA. 2022. Zinc sulphate. Available at: <https://echa.europa.eu/registration-dossier/-/registered-dossier/15488> (Accessed: 17.10.2022).

GHS. 2021. The Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 9th revised edition, United Nations: New York and Geneva. p. 550.

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