

MATERIAL SAFETY DATA SHEET

PRODUCT: ZINC SULPHATE

Date of Issue: 16 AUG 2021 **Valid until:** 15 AUG 2026 **GHS** Format

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Product (material) Name: ZINC SULPHATE 500G

Other names: Zinc Sulphate mono hydrate Manufacturer's code: MTO0511B/MTO0511

Recommended use: as a trace element fertiliser to correct Zinc deficiency in plants

Manufacturer/Supplier Information:

Name: MANUTEC PTY LTD

Address: 30 Jonal drive, Cavan, South Australia 5094 **Telephone No:**+61-8-8260 2277 **Fax:**+61-8-8260 2399

Email: manutec@manutec.com.au

Emergency contact only: Poisons Information Centre (Australia) 131126

2. HAZARDS IDENTIFICATION

Poisons Schedule (Aust) 6

Hazard Classification: Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories:

Acute Toxicity (Oral) - Category 4 Serious Eye Damage/Irritation - Category 1 Acute Hazard To The Aquatic Environment - Category 1

Pictograms:





Signal Word: Danger

Hazard Statements:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

Precautionary Statements:

Prevention P270 Do not eat, drink or smoke when using this product.



P264 Wash exposed skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

Response P301 + P312 IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell.

P305 + P351 + P338

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

rinsing.

P310 Immediately call a POISON CENTER or

doctor/physician.

P330 Rinse mouth.P391 Collect spillage.

Disposal P501 Dispose of contents/container in accordance with local /

regional / national /international regulations.

National Transport Commission (Australia)

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity CAS Number Proportion

Zinc Sulphate Monohydrate 7446-19-7 100.00 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed Rinse mouth with water. Give plenty of water to drink provided victim

is conscious. Never give anything by mouth to an unconscious person.

Do NOT induce vomiting. Seek medical attention.

Eye Immediately flush eyes with plenty of water for 15 minutes, holding

eyelids open. In all cases of eye contamination, it is a sensible

precaution to seek medical advice.

Skin If skin contact occurs, remove any contaminated clothing and shoes

and wash skin with plenty of soap and water. Seek medical attention.

Wash clothing before reuse.

Inhaled Remove victim from exposure to fresh air. If not breathing, apply

artificial respiration. If breathing is difficult, give oxygen.

Keep person warm and calm. Seek medical attention.



Advice to Doctor Treat symptomatically based on judgement of doctor and

individual reactions of patient.

Medical Conditions Aggravated by Exposure

No information available on medical conditions which are aggravated from exposure to this product.

5. FIRE FIGHTING MEASURES

General Measures Clear fire area of all non-emergency personnel. Stay

upwind. Keep out of low areas. Eliminate ignition

sources. Move fire exposed containers from fire area if it

can be done without risk.

Flammability Conditions No Data Available

Extinguishing Media In case of fire, use appropriate extinguishing media most

suitable for surrounding fire conditions. Suitable media may include water spray, alcohol-resistant foam, dry

chemical or carbon dioxide.

Fire and Explosion Hazard Non-combustible Solid.

Hazardous Products of Combustion

May release toxic and hazardous oxides of zinc and sulphur when involved in a fire.

Special Fire Fighting Instructions

Do NOT allow fire fighting water to reach waterways, drains or sewers.

Store fire fighting water for treatment.

Personal Protective Equipment

Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting

clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

Flash Point
No Data Available
Lower Explosion Limit
Upper Explosion Limit
No Data Available
No Data Available
Auto Ignition Temperature
No Data Available
Hazchem Code
No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure

Avoid accidents, clean up immediately. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Clean Up Procedures Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly as hazardous waste. Containment Stop leak if safe to do so. Isolate the danger area.

Environmental Precautionary Measures

Do NOT let product reach drains or waterways. If product does enter a waterway



Personal Precautionary Measures

Personnel involved in the clean up should wear full protective clothing as listed in section 8.

7. HANDLING AND STORAGE

Handling Ensure an eye bath and safety shower are available and

ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Avoid handling which leads to dust formation. In common with many organic chemicals, may form flammable dust clouds in air. Do not inhale product dust/fumes. Use only in a

chemical fume hood.

Storage Store in a cool, dry, well-ventilated area. Keep

containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10.

Hygroscopic. Keep container tightly closed in a dry and

well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General

No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m3 (for inspirable dust) and 3mg/m3 (for respirable dust).

NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when

calculated over a normal 8 hour working day for a 5 day working week.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Exposure Limits No Data Available

Biological Limits No information available on biological limits for this

product

Personal Protection Equipment RESPIRATOR:

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 (AS1715/1716).

EYES: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards (AS1336/1337).

HANDS: Handle with gloves. Gloves must be inspected prior to use (AS2161).



CLOTHING: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace (AS3765/2210).

Work Hygienic Practices Handle in accordance with good industrial hygiene and

safety practice. Wash hands before breaks and at the end

of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Odour No Data Available

Colour White pH 4 5%

Vapour Pressure No Data Available

Relative Vapour Density 0

Boiling Point No Data Available
Freezing Point No Data Available
Solubility 30% at 20oC
Specific Gravity 2500kg/m3

Flash Point No Data Available

Melting Point 238oC

Appearance Powder or Granules
Auto Ignition Temp No Data Available
Evaporation Rate No Data Available
Bulk Density No Data Available
Corrosion Rate No Data Available

Decomposition Temperature >500oC Density 2.5 Relative

Specific Heat No Data Available Molecular Weight 179.47g/mol

10. STABILITY AND REACTIVITY

Chemical Stability Product is stable under normal conditions of use, storage

and temperature.

Conditions to Avoid Avoid moisture.

Materials to Avoid Strong oxidizing agents.

Hazardous Decomposition Products

May release toxic and hazardous oxides of zinc and sulphur when involved in a fire. Hazardous Polymerisation Hazardous polymerization will not occur.

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11. TOXICOLOGICAL INFORMATION

Eye Irritant Risk of serious eye damage. Can cause corrosion of the eye

tissue, visual disturbances.

Ingestion Harmful if swallowed. Can cause gastrointestinal complaints,

nausea, vomiting, abdominal complaints, blood in stool,



decreased renal function, change in haemogramme/blood

composition, weakening of the immune system.

Inhalation Zinc oxide dust or fume can irritate the respiratory tract.

Exposure to high levels of dust or fume can cause metallic taste, marked thirst, coughing, fatigue, weakness, muscular pain, and nausea followed by fever and chills. Severe overexposure may result in bronchitis or pneumonia with a

bluish tint to the skin.

Skin Irritant May cause skin irritation. Prolonged skin contact can produce a

severe dermatitis called oxide pox.

Carcinogen Category No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic organisms; may cause long term adverse

effects in the aquatic environment. EC50 Daphnia - 0.56mg/l (EC50: 48h) LC50 Fish - 2.4mg/l (LC50: 96h)

Threshold limit algar - .05 - .36 EC50: 72h

Persistence/Degradability

No information available on persistence/degradability for this product.

Mobility No information available on mobility for this product.

Environmental Fate Do NOT let product reach waterways, drains and sewers.

Bioaccumulation Potential Bioaccumable. **Environmental Impact** No Data Available

13. DISPOSABLE CONSIDERATIONS

General Information

Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility. Dispose of as unused product.

14. TRANSPORT INFORMATION

Land Transport (Australia)

Proper Shipping Name ZINC SULPHATE MONOHYDRATE

Class No Data Available
Subsidiary Risk(s) No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available

Special Provision SPAU01

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

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15. REGULATORY INFORMATION

Poisons Schedule (Aust) 6

National/Regional Inventories Australia (AICS) Listed

16. OTHER INFORMATION

The MSDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

STATEMENT OF DISCLAIM:

This Material Safety Data Sheet has been developed according to WHS Code of Practice Preparation of Safety Data Sheets for Hazardous Chemicals Guidelines and written in accordance with GHS format.

All information is as accurate and up-to-date as possible. Since Manutec Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Manutec Pty Ltd will not be responsible for damages of any nature resulting from use of or reliance upon this information.

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