SAFETY DATA SHEET
Hi-Zinc

1. CHEMICAL PRODUCT AND COMPANY IDENTIFCATION

Product Name:	Hi - Zinc
Product Type:	Liquid Fertilizer
Company Name:	Hi-Tech Ag Solutions 24 Shanahan Road (PO Box 5351) Davenport WA 6230 Australia
Phone:	08 9725 7322
Emergency Contact:	0499 944 099
Date of Issue:	02nd December 2024

2. HAZARDS IDENTIFICATION

2.1 Hazard Classification:	Hazardous according to the criteria of the GHS classification and labelling. Non-Dangerous Goods - According to the Australia Dangerous Goods Code.
2.1.1 **GHS Classification:**	Acute Hazard to the Aquatic Environment – Cat 1
2.2 Label Elements:	
Signal Word	Warning
Hazard Statement(s):	H400 – Very toxic to aquatic life. H410 – Very Toxic to aquatic life with long lasting effects.
Precautionary Statement(s):	P392 – Collect spillage. P273 - Avoid Release to the enviroment.
Disposal	P501 - Dispose of Contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Compound	CAS Number	Proportion
Zinc Sulphate	7733-02-0	30-40%
Water		Balance %

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air.
Ingestion:	Rinse mouth with water, seek medical attention if irritation persists, contact Poison Centre.
Skin Contact:	Remove contaminated clothing and wash skin with water. If irritation occurs seek medical advice.
Eye:	Flush eyes continuously with water. If symptoms develop , seek medical attention.
First Aid Facilities:	Eyewash, Shower, and normal washroom facilities
Advice to Doctor:	Treat symptomatically.
Other Information:	For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126; New Zealand 0800 POISON / 0800 764 766) or a doctor at once.
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5. FIRE FIGHTING MEASURES

Hazards from Combustion:	Non-combustible material.
Specific Hazards:	Fire may produce irritating fumes. Including Sulphur and Oxides of Zinc.
Precautions in connection with Fire:	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours or fumes. Dike area to prevent runoff and contamination of water sources. Suitable for most extinguishing media.
Hazchem Code:	Not Regulated

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Wear appropriate PPE and clothing to minimise exposure. Increase ventilation. If possible, contain the spill. Place sand, earth, or vermiculite on spillage. Collect the material and place into a suitable labelled container. Do not flush down drains or into water ways.
Other Information:	Large spills may be reportable to the state and/or local regulatory agencies.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Use only in a well-ventilated area. Keep containers sealed when not in use. Remove clothing if contaminated with product
Conditions for Safe Storage:	Store in original, labelled containers, in a cool, dry, well-ventilated area, out of direct sunlight. Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations. Store away from combustible materials, herbicides, and fungicides. Do not use or store near open flame. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards	No exposure value assigned for this specific material
Biological Limit Values	No biological limits allocated.
Engineering Controls:	Natural ventilation should be adequate, under normal conditions.
PPE:	
Eyes	Wear safety goggles with side shield.
Hand Protection	Wear impervious gloves.
Body Protection	Wear personal protective overalls.


9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow- Green Liquid
Odour:	None
Boiling Point (ºC):	>100
Solubility in Water:	Completely miscible
Specific Gravity:	1.28 – 1.43
Vapour Pressure:	N/A
pH Value	2.1 – 3.0
Flammability	Non-Flammable

Note: Physical data typical values but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY

Reactivity:	Avoid contact with strong bases
Conditions to avoid	Excessive heat
Chemical Stability:	Stable under normal conditions of storage and handling
Hazardous decomposition of Products	May release oxides of Zinc and sulphur.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	No data available
Skin Corrosion/Irritation:	May cause irritation.
Eye Irritant:	May cause eye irritation
Respiratory irritation:	Data not available
Germ Cell Mutagenicity:	Data not available
Carcinogenicity	Data not available
Reproductive Toxicity:	Data not available
STOT – single exposure	Data not available
STOT- repeated exposure:	Data not available
Aspiration Hazard:	Data not available

12. ECOLOGICAL INFORMATION

Eco Toxicity:	Toxic to aquatic life
Persistence and degradability:	No data available
Bioaccumalative Potential:	No data available
Mobility in Soil:	No data available
Other adverse effects:	No Data available.

13. DISPOSAL CONSIDERATIONS

Dispose of in appropriately licence general landfill site in accordance with local, state, and federal regulations. Waste should be labelled. Special arrangements made to bury bulk waste upon dumping, limiting exposure.

14. TRANSPORTATION INFORMATION

The product is a not considered a dangerous good and not subject to the provisions of ADR (road), RID (Railway), IMDG (sea) or IATA (airplane).

15. REGULATORY INFORMATION

Poisons Schedule: 6

16. OTHER INFORMATION

This information is based on collective and current knowledge, is intended to describe the product for purposes of safety, environmental and health requirements only. It should therefore not be construed as guaranteeing any specific property of the product. The SDS is prepared by Hi Tech Ag (PTY) LTD

Key/Legend

<	Less Than	atm	Atmosphere
>	Greater Than	CAS	Chemical Abstracts Service (Registry Number)
AICS	Australian Inventory of Chemical Substances	cm^2	Square Centimetres
CO_2	Carbon Dioxide	COD	Chemical Oxygen Demand
(°C)	Degrees Celsius	K	Kelvin
g	Grams	GHS	Globally Harmonised System
g/cm^3	Grams per Cubic Centimetre	g/l	Grams per Litre
mmHg	Millimetre of Mercury	Kg	Kilogram

Kg/m^3	Kilograms per cubic metre	lb	Pound
LC50	Lethal Concentration of a material in air which causes the death of 50% of a group of test animals.	LD 50	Lethal dose of material given all at once, which causes death of 50% of a group of test animals.
Ltr/L	Litre	m^3	Cubic meter
mbar	Minibar	mg	Milligram
mg/24H	Milligrams per 24 Hour	mg/kg	Milligrams per Kilogram
mg/m³	Milligrams per Cubic Metre	mm	Millimetre
mmH2O	Millimetres of Water	mPa.s	Millipascals per Second
N/A	Not Applicable	NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission	OECD	Organisation for Economic Co-operation and Development
Oz	Ounce	PEL	Permissible Exposure Limit
Pa	Pascal	ppb	Parts per Billion
ppm	Parts per Million	ppm/2h	Parts per Million per 2 Hours
ppm/6h	Parts per Million per 6 Hours	psi	Pounds per Square Inch
R	Rankine	RCP	Reciprocal Calculation Procedure
STOT	Specific Target Organ Toxicity	TLV	Threshold Limit Value
Tne	Tonne	TWA	Time Weighted Average
µg/24H	Micrograms per 24 Hours	UN	United Nations
wt.	Weight	Immiscible : Liquids are insoluble in each other	
Misc. or Miscible liquids form one homogenous liquid phase regardless of the amount of either component.			

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