

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFCATION

**Product Name:** Hi- Mang **Product Type:** Liquid Fertiliser

Hi-Tech Ag Solutions

24 Shanahan Road (PO Box 5351) Company Name:

Davenport WA 6230 Australia

Phone: 08 9725 7322 **Emergency Contact:** 0499 944 099 Date of Issue: 12th December 2024

## 2. HAZARDS IDENTIFICATION

Hazardous according to the criteria of GHS classification Hazard Classification:

Non Dangerous Goods. according to the Australia Dangerous Goods Code.

**GHS Classification:** Specific Target Organ Toxicity (repeated Exposure) - Cat 2

**Label Elements:** 

Signal Word: Warning

**Hazard Statement:** H373 – May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statement(s):** P260 - Do not breathe dust or mists

Disposal: P501 - Dispose of Contents/container to an approved waste disposal plant.

#### 3. INFORMATION ON INGREDIENTS

Chemical	CAS No.	Proportion
Manganese Sulphate	10034-96-5	15 – 45%
Other Fertilizer ingredients determined not to be hazardous	N/A	Up to 100%

### 4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest position comfortable for breathing until fully recovered.

Ingestion: Rinse mouth with water. Seek medical attention or call poisons information centre.

**Skin Contact:** Remove contaminated clothing, rinse skin with water. Seek medical advice if irritation persists.

Eye: Rinse with plenty of clean water, seek medical advice, if irritation persists.

**First Aid Facilities:** Eyewash and normal washroom facilities

Advice to Doctor: Treat symptomatically.

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126; New Other Information:

Zealand 0800 POISON / 0800 764 766) or a doctor at once.

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#### 5. FIRE FIGHTING MEASURES

Flammability: Non-Flammable and non-combustible material.

Specific Hazards: May decompose on heating and emit harmful vapours.

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

Precautions in connection with Fire:

Wear appropriate PPE to minimise exposure. Increase ventilation. If possible, contain the

**Emergency Procedures:** 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

Avoid contact with skin and eyes, wear appropriate PPE. Do not inhale spray **Precautions for Safe Handling:** 

mist.

Store in a cool, dry, well-ventilated area, out of direct sunlight Store in original, Conditions for Safe Storage:

labelled containers. Keep containers closed when not in use.

#### 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:** Use with good general ventilation or with respiratory protection.

Eye Protection: Safety glasses with side shields should be worn

**Hand Protection:** Wear gloves of impervious material **Body Protection** Wear chemical resistant overalls





General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES				
Appearance:	Brown –Pink liquid	Melting Point:	N/A	
Solubility in Water:	miscible in water	Boiling Point:	>100° C	
Specific Gravity:	1.29 – 1.43	Flash Point:	N/A	
pH Value	4.9 – 6.1	Flammability:	Not flammable	
Vapour Pressure:	N/A	Auto-Ignition Temperature	N/A	
Vapour Density (Air=1):	N/A	Flammable Limits:	N/A	
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

**Chemical Stability:** Stable under normal conditions of storage and handling.

**Conditions to Avoid:** Excessive heat. Do not store near heat or flame. Direct sunlight.

**Hazardous Decomposition of** 

Possible sulphur and Manganese compounds, oxides of sulphur may be release. Products:

# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** Harmful: serious damage to health by prolonged or repeated exposure, if inhaled.

Skin No data available



Eye: No data available

Respiratory or skin 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

# 12. ECOLOGICAL INFORMATION

Eco toxicity: No data available

Persistence/Degradability: Data not available

Mobility in soil: Data not available

Other Adverse Effects: Toxic to Aquatic life with long lasting effects.

# 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: Not scheduled

# **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
	0	040	
>	Greater Than	CAS	Chemical Abstracts Service (Registry Number)
AICS	Australian Inventory of Chemical Substances	cm²	Square Centimetres
CO <sub>2</sub>	Carbon Dioxide	COD	Chemical Oxygen Demand
(°C)	Degrees Celsius	K	Kelvin
g	Grams	GHS	Globally Harmonised System
g/cm³	Grams per Cubic Centimetre	g/l	Grams per Litre
mmHg	Millimetre of Mercury	Kg	Kilogram
Kg/m <sup>3</sup>	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	m³	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
	Weight	Immiscible : Liquids are insoluble in each other	

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