

# SAFETY DATA SHEET Hi- Sil Plus

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFCATION

Product Name: Hi - Sil Plus
Product Type: Liquid fertiliser

Hi-Tech Ag Solutions

Company Name: 24 Shanahan Road (PO Box 5351)

Davenport WA 6230 Australia

Phone: 08 9725 7322
Emergency Contact: 0499 944 099
Date of Issue: 28<sup>th</sup> January 2025

#### 2. HAZARDS IDENTIFICATION

Hazard Classification:

Hazard Classification according to the criteria of GHS Classification

Non-Dangerous goods classification according to the Australia Dangerous Goods Code.

GHS Classification Eye Damage/Eye irritation – Cat 2A

Skin Irritation - Cat 2

**Label Element** 



Signal Word Warning

Hazard Statement H303 – May be harmful if swallowed

H315 – Causes skin irritation

H319 – Causes serious eye irritation

P264 – Wash thoroughly after handling

P280 – Wear protective gloves/protective clothing/eye protection & face protection.

Precautionary Statement P302 + P352- IF ON SKIN, wash with plenty of soap and water

P305 + P351 + P338 - IF ON EYES, rinse cautiously with water for several minutes. Remove

lenses if present and easy to do. Continue rinsing.

P337 + P313 – If irritation persists get medical attention/advice.

**Disposal** P501 – Dispose of contents/container in an approved waste disposal plant.

#### 3. INFORMATION ON INGREDIENTS

CAS No	Proportion
1312-76-1	20 -50%
N/A	% Balance
	1312-76-1

#### 4. FIRST AID MEASURES

**Inhalation:** If inhaled, remove person to fresh air. If symptoms persist seek medical attention.

Ingestion:

Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek

medical attention. Contact Poison information Centre.

Skin Contact: Remove contaminated clothing. Rinse skin off immediately with plenty water. If irritation persists,

seek medical attention.

Eye: Rinse with plenty of clean water for 15 minutes, seek attention, if irritation persists.

First Aid Facilities: Eyewash 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.

Extinguishing media Compatible with dry chemical water spray, foam, and Carbon dioxide

Specific Hazards: This product is non-combustible, flammable hydrogen gas maybe produced.

Fire fighters should wear Self-Contained Breathing Apparatus & PPE to prevent Precautions in a Fire:

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** 

Wear appropriate PPE to minimise exposure. Increase ventilation. If possible, contain **Emergency Procedures:** 

the spill with sand or vermiculite, store in a suitable container.

Other Information: Large spills may be reportable to the state and/or local regulatory agencies.

7. HANDLING AND STORAGE

Use only in a well-ventilated area. Keep containers sealed when not in use. Store and **Precautions for Safe Handling:** 

transport in sealed containers below 40° C. Remove PPE after handling product.

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. Ensure that storage

conditions comply with applicable local and national regulations.

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.

PPE:

Eye Protection: Safety glasses with side shields should be worn. Wear gloves of impervious material **Hand Protection: Body Protection** 

Wear chemical resistant coveralls

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown Viscous Liquid	Boiling Point:	N/A
Solubility in Water:	100%	Melting Point:	N/A
Specific Gravity:	1.25 – 1.39	Vapour Pressure:	N/A
pH Value	11.5 – 12.7	Flash Point:	N/A
Auto-Ignition Temperature:	N/A	Flammability:	Not flammable water-based liquid
Note: Physical data typical values but may your from complete complete complete should not be construed as a			

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#### 10. STABILITY AND REACTIVITY

Reactivity: Stable liquid with no hazardous decomposition products.

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

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

**Incompatible Materials:** Will react exothermically with acids.

May form hydrogen gas when reacted with Al, Cu, brass, bronze, and Zn and Hazardous decomposition of products

gels and generates heat when reacted with an acid.

Strongly alkaline solution and are not compatible to Al, Cu, Brass, bronze & Zn, Other Information

Sn and Pb, can etch glass if not properly removed.



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#### 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: Data not available

Skin Corrosion/Irritation: May cause irritation.

Eye Irritant: May cause 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

Persistence & degradability: Will not bio accumulate

Bio accumulative potential: Data not available

Mobility in soil: Data not 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: Not a scheduled poison (standard for the uniform scheduling of drugs and poisons NO. 22)

#### **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 <sup>2</sup>	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
	Millian at un af Manageme	1/	Vila mana
mmHg	Millimetre of Mercury	Kg	Kilogram
Kg/m <sup>3</sup>	Kilograms per cubic metre	lb	Pound
rxg/III	Milograms per cubic mede	ID	1 Outlu



### **SAFETY DATA SHEET** Hi- Sil Plus

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 <sup>3</sup>	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 & 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		

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