SAFETY DATA SHEET
Hi-Boron

1. CHEMICAL PRODUCT AND COMPANY IDENTIFCATION

Product Name:	Hi-Boron
Product Type:	Liquid Fertiliser
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:	23rd February 2024

2. HAZARDS IDENTIFICATION

Hazard Classification:	Hazardous according to the criteria of GHS Classification. N0n- Dangerous Goods according to the Australia Dangerous Goods Code.	
GHS Classification:	Reproductive Toxicity (Fertility)- Category 2 Toxic to reproduction (Unborn Child) – Category 2	
Label Elements:		
Signal Word:	Warning	
Hazard Statement:	H361	Suspected of damaging fertility or unborn child
Precautionary Statement	P202	Do not handle until all safety precautions have been read and understood
	P281	Use personal protective equipment as required
Response:	P308+P313	if exposed or concerned. Get medical advice/attaention
Disposal:	P501	Dispose of contents/container according to applicable local regulations.

3. INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportion
Boric Acid	10043-35-3	40 – 60%
MEA	141-43-5	15 – 35%
Proprietary non-hazardous material + Water		% Balance

4. FIRST AID MEASURES

Inhalation:	Remove person to fresh air. Seek medical attention if symptoms develop.
Ingestion:	Rinse mouth with clean water. Seek medical attention.
Skin Contact:	Take off contaminated clothing. Wash skin off immediately with plenty water Seek medical attention if irritation persists.
Eye:	Rinse with plenty of clean water. Seek medical attention.
First Aid Facilities:	Eyewash and normal washroom facilities
Advice to Doctor:	Treat symptomatically based on judgement of doctor and individual reactions of patient.
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

Suitable Extinguishing media	Water, dry chemical powder, carbon dioxide, foam
Hazardous Combustion of products:	Toxic gases may form in a fire. Carbon monoxide and other asphyxiates may form as well.
Precautions in connection with Fire:	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and suitable PPE. Dike area to prevent runoff and contamination of water sources.
Hazchem Code:	N/A

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Wear appropriate personal protective equipment and clothing to minimise exposure. Contain the spill. Prevent product from entering waterways, drains and confined areas. Dispose contaminated material at an approved landfill
Other Information:	Large spills may be reportable to the state and/or local regulatory agencies.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Keep containers sealed when not in use. Wear appropriate PPE when handling product. Maintain high standards of personal hygiene
Conditions for Safe Storage:	Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations. Store in a cool dry place

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.
PPE: **Eye Protection**: **Hand Protection**: **Body Protection**:	 Wear face shields or chemical goggles Wear gloves of impervious material Wear chemical resistant overalls
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green viscous liquid	**Melting Point:**	N/A
Solubility in Water	Yes	**Vapour Pressure:**	N/A
Specific Gravity:	1.30 -1.43	**Flammable Limits**	N/A
pH Value	8.3 - 9.1	**Flash Point:**	N/A
Flammability:	Not flammable	**Auto-Ignition Temperature:**	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

Reactivity:	None Known.
Chemical Stability:	Stable under normal conditions of storage and handling.
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition of Products:	Carbon monoxide, carbon dioxide and oxides of boron.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	**Skin Irritation**:	May cause skin irritation, Estimated. LD50= 2.07mg/kg (based on component data)
	Eye Irritant:	May cause serious eye irritation
	Acute Inhalation:	May cause respiratory irritation.
	Acute Oral Effects:	No significant effects
	Germ Cell	Data not available
	Mutagenicity:	Data not available
	Carcinogenicity	Data not available
Reproductive Toxicity	Boric acid has an effect on male fertility and the development of an unborn child; however, no data is available on the mixture.	
STOT – single exposure	Data not available	
STOT- repeated exposure:	Data not available	

12. ECOLOGICAL INFORMATION

Eco toxicity:	Not Determined
Persistence & degradability:	Not determined
Bio accumulative potential:	Not determined
Mobility in soil:	Not determined

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: 5

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/m^3	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	
Misc. or Miscible liquids form one homogenous liquid phase regardless of the amount of either component.			

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