Signature Ultimate

SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier	**Signature Ultimate**
Other means of identification	None assigned
Recommended use of the chemical	Liquid NPK blend with amino acid chelated trace elements for seed dressing.
Restrictions on Use	Use only for the intended application.
Details of Australian manufacturer or importer	**Australian manufacturer / importer:** Wilchem Pty Ltd **ABN:** 44 614 126 573 **Address:** 39 Jonal Drive, Cavan, SA 5094 AUSTRALIA **Telephone:** 08 8359 6855 **Email:** admin@wilchem.com.au **Website:** www.wilchem.com.au
Emergency phone number	Poisons Information Centre: **13 11 26**, (Australia, 24 hours)

2. HAZARDS IDENTIFICATION

Classification of the hazardous chemical

Classified as a hazardous chemical in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals, 7th Revised Edition (GHS 7), as adopted under Australian WHS legislation.

Hazard class	Reproductive toxicity, Category 1B Hazardous to the aquatic environment (chronic), Category 3
Signal word	DANGER
Hazard pictograms	
Hazard statements	May damage fertility or the unborn child. Harmful to aquatic life with long-lasting effects.
Prevention statements	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response statements	IF exposed or concerned: Get medical attention.
Storage statements	Store locked up.
Disposal statements	Dispose of contents/container in accordance with local/regional/national regulations.
Other hazards which do not result in classification	No other hazards which do not result in classification have been identified**.**

DANGEROUS GOODS STATEMENT

Not classified as dangerous goods for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road & Rail, Edition 7.9 (ADG Code).

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Identity	CAS No.	Concentration or concentration range (% w/w)
Borate salts, expressed as boric acid equivalent	Mixture	1 - 3
Other ingredients not classified as hazardous including water	=	to 100

4. FIRST AID MEASURES

Description of necessary first aid measures

Inhalation Remove to fresh air. Keep at rest. Obtain medical advice if ill-effects occur or persist.

Skin contact Remove contaminated clothing. Wash skin thoroughly with water and soap. Obtain medical advice if irritation develops. Wash clothing before reuse.

Eye contact Rinse cautiously with clean water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical advice if irritation develops or persists.

Ingestion Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a POISONS INFORMATION CENTRE or doctor for advice.

First aid facilities

Provide eyewash and access to running water.

Symptoms and effects caused by exposure, including acute and delayed effects

No specific acute symptoms are associated with the reproductive toxicity classification. Reproductive and developmental effects are potential delayed systemic effects following sufficient exposure to borate species. Ingestion may cause gastrointestinal discomfort.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Consider soluble borate exposure.

5. FIREFIGHTING MEASURES

Extinguishing media

Product is water-based and not combustible. Use media appropriate to surrounding fire.

Specific hazards arising from the chemical, including hazardous combustion products

Heating to dryness or fire may produce sulphur oxides, boron compounds, nitrogen oxides, carbon oxides and metal oxides. Containers may rupture when heated.

Special protective equipment and precautions for fire fighters

Evacuate area and contact emergency services. Toxic gases may be present in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing

Apparatus (SCBA) when combatting fire. Use water fog or spray to cool intact containers and nearby storage areas. Prevent contaminated fire water entering drains and waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Isolate area. Avoid eye/skin contact and mist inhalation. Wear gloves, protective clothing and chemical splash goggles/face shield. Ensure ventilation.

Environmental precautions

Prevent entry to drains, soil and waterways. Notify the appropriate authority if significant contamination occurs.

Methods and materials for containment and clean up

Small spills: Contain and recover the liquid where practicable. Absorb residual material with sand, earth or other suitable inert absorbent and place in a labelled container for reuse or disposal. If washing is required, use the minimum quantity of water necessary and prevent product or wash water entering stormwater drains or waterways.

Large spills: Stop leak if safe to do so. Bund with sand, earth or other inert absorbent material. Recover and recycle liquid where practicable. Absorb residue and place in labelled containers for disposal. Do not wash concentrated product to drain. Wash the area with minimal water and collect washings.

7. HANDLING AND STORAGE

Precautions for safe handling

Obtain special instructions before use. Read all safety information, including Directions for Use on the label. Avoid unnecessary exposure and generation of spray mist or aerosol. Do not eat, drink or smoke while handling. Wash thoroughly after use. Manage occupational exposure in accordance with workplace risk assessment, taking account of the reproductive toxicity classification.

Conditions for safe storage, including any incompatibilities

Store locked up in the closed original container in a cool, dry, well-ventilated, bunded area. Protect from heat, freezing and direct sunlight. Segregate from strong alkalis, oxidising agents, reducing agents, food and feed..

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Workplace exposure standards / limits

No product-specific Australian workplace exposure standard has been assigned to this product.

Exposure to spray mist or aerosol should nevertheless be minimised so far as reasonably practicable.

Biological monitoring

No specific biological exposure limit or biological monitoring requirement has been identified for the ingredients in this product.

Engineering controls

Use in well-ventilated areas. Avoid generation of spray mist or aerosol. Where aerosol or mist may be generated, use closed transfer, local exhaust ventilation or other suitable engineering controls to minimise inhalation exposure. Occupational exposure should be minimised so far as reasonably practicable, taking account of the reproductive toxicity classification.

Personal Protective Equipment (PPE)

Eye and face protection	Wear safety glasses with side shields or splash-proof chemical goggles (AS 1336 / 1337).

Skin protection	Recommended glove types include PVC or nitrile (AS 2161). The use of elbow length gloves is recommended.
Body protection	Clothing should include long sleeves, long trousers, safety boots and chemically resistant gloves.
Respiratory protection	Normally unnecessary for closed liquid handling. If mist is generated and controls are inadequate, use an AS/NZS 1716-compliant respirator selected under AS/NZS 1715.
Thermal hazards	None identified.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Colour	Amber
Odour	Characteristic
Melting point / freezing point	Not determined
Boiling point	Not determined
Flammability	Nonflammable aqueous mixture
pH (neat)	4 to 6
Solubility	Soluble in water
Vapour pressure	Not determined.
Density and /or relative density	Approximately 1.2

10. STABILITY AND REACTIVITY

Reactivity

No specific hazardous reactions are known under normal conditions of use. Avoid contamination with incompatible materials.

Chemical stability

Stable under normal conditions of storage and handling.

Possibility of hazardous reactions

No hazardous reactions under normal conditions of storage and handling.

Conditions to avoid

Avoid excessive heat, freezing, evaporation and contamination with incompatible materials.

Incompatible materials

Incompatible with strong alkalis and strong oxidising / reducing agents.

Hazardous decomposition products

Sulphur oxides, nitrogen oxides, carbon oxides, boron compounds and metal oxides on strong heating.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation: Spray mist may cause upper respiratory tract irritation.

Skin contact: Incidental skin contact is not likely to cause irritation.

Ingestion: May cause nausea, vomiting and gastrointestinal irritation.

Eye contact: May cause transient discomfort.

Chronic effects: The product is classified as Reproductive Toxicity Category 1B due to its borate content. May damage fertility. May damage the unborn child.

The finished product is not classified for specific target organ toxicity following repeated exposure.

Symptoms related to the physical, chemical and toxicological characteristics

No specific acute symptoms are associated with the reproductive toxicity classification. Ingestion may cause gastrointestinal discomfort. Spray mist may cause transient irritation of the respiratory tract. Reproductive and developmental effects are potentially delayed systemic effects following sufficient exposure.

Immediate and delayed effects

Transient irritation may occur following direct exposure to spray mist or liquid. Reproductive or developmental effects, if they occur, would be delayed effects associated with sufficient systemic exposure to borate species.

Numerical measures of toxicity

Toxicological test data are not available for the finished product. Based on available ingredient information and the applicable GHS 7 mixture criteria, the finished product is not classified for acute toxicity.

Toxicological endpoint information

Acute toxicity	Not expected to meet mixture criteria for acute toxicity; ingestion may cause adverse gastrointestinal effects.
Skin corrosion / irritation	Incidental contact is not likely to cause irritation. Repeated or prolonged contact may cause irritation.
Serious eye damage / irritation	Not classified.
Respiratory sensitisation	Not classified.
Skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Reproductive Toxicity Category 1B. May damage fertility. May damage the unborn child. The classification is driven by the borate content of the product. Borate species are classified as Reproductive Toxicity Category 1B under the Australian Hazardous Chemical Information System.
Specific Target Organ Toxicity (STOT)– single exposure	Not classified
Specific Target Organ Toxicity (STOT) – repeated exposure	Not classified
Aspiration hazard	Not an aspiration hazard.
Medical conditions aggravated by exposure	No information available.
Additional information	Toxicological test data are not available for the finished product unless otherwise stated. The health-hazard assessment has been derived from available information on the ingredients, relevant finished-product or analogous-mixture data where available, and the applicable GHS 7 mixture-classification criteria.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects. No ecotoxicological test data are available for the finished product. The Chronic Aquatic Category 3 classification is based conservatively on the residual unchelated metal fraction remaining after chelation. Large or uncontrolled releases may also adversely affect aquatic environments through nutrient and trace-metal loading. Avoid uncontrolled release.

Persistence and Degradability

Inorganic metal and borate ions do not biodegrade. Organic components are expected to be biodegradable, but no finished-product data are available.

Bioaccumulative Potential

Chelated and residual dissolved metals may interact with sediments, soils and organic matter. Environmental bioavailability depends on metal speciation, pH, hardness, dissolved organic matter and other water-chemistry conditions. No finished-product bioaccumulation data are available.

Mobility in Soil

Product is water soluble and mobile before sorption/precipitation.

Other Adverse Effects

Nutrient and trace-metal release may harm aquatic systems. Avoid uncontrolled release.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Recover or recycle the product where practicable. Dispose of residues, contaminated absorbents and packaging through a licensed waste contractor in accordance with applicable Commonwealth, state, territory and local requirements. Do not discharge concentrated product to stormwater, surface waters or soil. Empty containers may retain product residues and should be handled accordingly.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as dangerous goods for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road & Rail, Edition 7.9 (ADG Code).

UN number	None allocated.
UN proper shipping name	None allocated.
Transport hazard class	None allocated.
Packing group	None allocated.
Subsidiary risk(s)	None allocated.
Environmental hazards for transport purposes	Not classified as environmentally hazardous for transport purposes.
Special precautions for user	Handle and transport in accordance with the precautions described in Sections 6, 7 and 8 of this Safety Data Sheet.
Additional information	None allocated.
Hazchem code	None allocated.

15. REGULATORY INFORMATION

International conventions and agreements:

No specific international convention applicable to the product has been identified.

Safety, health and environmental regulations

Poisons scheduling: Not scheduled under the current Australian Poisons Standard. The total borate concentration is below the exemption limit of 6% calculated as boric acid.

16. OTHER INFORMATION

This Safety Data Sheet has been prepared in accordance with the Safe Work Australia Model Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals and the Globally Harmonized System of Classification and Labelling of Chemicals, Seventh Revised Edition (GHS 7), as adopted under Australian work health and safety legislation.

Date of preparation	14 October 2026
Supersedes SDS dated	Not applicable – initial issue.
Revision number	1
Disclaimer	The information in this SDS is based on information reasonably available to the Australian manufacturer or importer at the date of preparation or review. It describes the product in relation to workplace health and safety requirements and is not a product specification or warranty of performance. The product should be used only for the applications identified in Section 1 and in accordance with the information in this SDS. Users remain responsible for assessing workplace risks arising from their particular use conditions and for complying with applicable legislation.

End of Report