

Section 1 – Identification of Material and Producer/Supplier

Product Name: BATESL (Liquid)
Product Use: Liquid biostimulant for agricultural use
Producer: Great Southern Biology Pty Ltd
Address: 956 Metry St, North Albury, NSW, 2640
Phone: 0438 031135
Website: www.greatsouthernbiology.com.au
Email: info@greatsouthernbiology.com.au
Emergency Telephone Numbers: Police, Ambulance, Fire: 000 (Mobile 112)
Poisons Information Centre (Australia) 13 11 26
Great Southern Biology Mon-Fri 8am – 4pm AEST
0438 031135 (Australia)
Version Date: July 2025

Section 2 – Hazards Identification

Statement of Hazardous Nature

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SWA
NOT A DANGEROUS GOOD ACCORDING TO THE ADG CODE, IATA OR IMDG/IMSBC CRITERIA

Hazard Statement: Not Hazardous - No criteria found.

SUSP Classification: S5

ADG Classification: None allocated. Not a dangerous good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

UN Number: None allocated.

GHS Signal Word: NONE. Not hazardous.

PREVENTION

P102: Keep out of reach of children.

P262: Do not get in eyes, on skin or on clothing.

P281: Use personal protective equipment as required.

RESPONSE

P353: Rinse skin or shower with water.

P301 + P330 + P331: IF SWALLOWED rinse mouth. Do not induce vomiting.

P370 + P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE DISPOSAL

P402 + P404: Store in a dry place. Store in a closed container.

Soak up with inert absorbent material (eg: sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled container. Close tightly. Clean contaminated floors and objects thoroughly, observing environmental regulations. Clean with disinfectants.

PHYSICAL DESCRIPTION & COLOUR

Musty / earthy liquid

ODOUR

Fermentation characteristics – earthy / musty odour.

MAJOR HEALTH HAZARDS

Ni significant risk factors have been found for this product in normal use.

Section 3 – Composition / Information on ingredients

Ingredients	Concentration (%)	Concentration (cfu/ml)
Bacillus subtilis (GSB)	<1%	>1x10 ⁹
Trichoderma endophyticum	<1%	>1x10 ⁸
Streptomyces lydicus	<1%	>1x10 ⁸
Water	>97%	NA

This is a commercial product whose exact ratio of components are withheld for proprietary claim which may vary slightly. Minor quantities of other nonhazardous ingredients are also possible.

Section 4 – First Aid Measures

General Information:	You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.
Inhalation:	No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.
Skin Contact:	Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until removed.
Eye Contact:	Flush eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.
Ingestion:	If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, if in doubt contact a Poisons Information Centre or doctor.

Section 5 – Fire Fighting Measures

Fire and explosion hazards:	There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.
Fire decomposition products:	No known hazardous decomposition products
Extinguishing media:	Not combustible. Use extinguishing media suited to burning materials.
Fire fighting:	If a significant quantity of this product is involved in a fire, call the fire brigade.
Flash point:	Does not burn.
Upper flammability limit:	Does not burn.
Lower flammability limit:	Does not burn.
Auto ignition temperature:	Not applicable. Does not burn.

Flammability class: Does not burn.

Section 6 – Accidental Release Measures

Accidental release: For minor spills, clean up, rinsing to sewer and put empty container in garbage. It is good practice to wear impermeable gloves when handling chemical and microbial products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services. This material may be suitable for approved landfill.

Section 7 – Handling and Storage

Handling: Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas

Storage: Store in cool, dry area removed from foodstuffs and out of direct sunlight. Ensure containers are labelled, protected from physical damage and sealed when not in use. Store away from farm chemicals e.g. insecticides, fungicides and herbicides.

Section 8 – Exposure Controls and Personal Protection

Control parameters

Components	CAS-No	Control parameters	Update	Basis
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Exposure limits have not been set by SWA for other ingredients in product. The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, 31st March 2012

Exposure controls

Personal protective equipment:

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Respiratory protection:	Respiratory protection is not required under anticipated circumstances of exposure. When respirators are required use a P2 type canister respirator where high concentrations of airborne mist is present. Provision of eye wash facilities and a safety shower is recommended.
Hand protection:	Wash hands before eating, drinking, smoking or going to toilet, launder protective clothing before re-use.
Eye protection:	Eye protection such as protective glasses or goggles is recommended.
Skin and body protection:	Wear gloves or gauntlets and long sleeves when using this product to protect against skin irritation
General protective measures:	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

Section 9 – Physical and Chemical Properties

Physical Description & Colour & Odour:	Musty/Earthy liquid. Characteristic fermentation odour.
Boiling Point:	100°C
Freezing / Melting Point:	Approx 0°C
Volatiles:	No specific data. Expected to be low at 100°C
Specific Gravity:	1.01
Water Solubility:	Miscible
pH:	6-7 in water
Volatility:	Negligible at normal ambient temperatures
Odour Threshold:	No data
Evaporation Rate:	Not applicable
Coeff Oil/Water	No data
Distribution:	
Viscosity:	1.0
Auto Ignition Temp:	Not applicable – does not burn

Section 10 – Stability and Reactivity

Reactivity:	This product is unlikely to react or decompose under normal storage conditions.
Conditions to avoid:	Heat, flames, direct sunlight.
Incompatibilities:	Strong oxidisers, caustics, acids, hypochlorites
Fire Decomposition Products:	No hazardous decomposition products are known to occur from this product.
Polymerisation:	This product is unlikely to undergo polymerisation processes.
Reactivity:	Compatible with most commonly used materials.

Section 11 – Toxicological Information

Target Organs:	There is no data to hand indicating any particular target organs.
Inhalation:	Available data indicates that this product is not harmful.
Skin Contact:	May cause mild irritation but is unlikely to cause anything more than mild transient discomfort.
Eye Contact:	This product may be mildly irritating to eyes but is unlikely to cause anything more than mild transient discomfort.
Ingestion:	May cause mild irritation of the digestive system
Carcinogen Status:	SWA: No significant ingredient is classified as carcinogenic by SWA. NTP: No significant ingredient is classified as carcinogenic by NTP IARC: No significant ingredient is classified as carcinogenic by IARC
Classification of Hazardous Ingredients:	No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

Section 12 – Ecological Information

This product is unlikely to adversely affect the environment as it contains naturally occurring ingredients.

Section 13 – Disposal Considerations

Product:	Dispose in accordance with all local, state/provincial and federal regulations, noting that the product is biodegradable. It is good practice to wear impermeable gloves when handling chemical and microbial products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services. This material may be suitable for approved landfill.
Contaminated Packaging:	Consult state and local regulations regarding the proper disposal of container.

Section 14 – Transport Information

UN Number:	This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.
Land Transport (ADG Code):	Not regulated for transport of Dangerous Goods
Air Transport (IATA):	Not regulated for transport of Dangerous Goods
Sea Transport (IMDG Code):	Not regulated for transport of Dangerous Goods

Section 15 – Regulatory Information

AICIS:	All of the significant ingredients in this formulation are compliant with AICS regulations.
SUSMP Poisons Schedule:	Not scheduled

Section 16 – Other Information

Acronyms	
ADG Code	Australian Code for the Transport of Dangerous Foods by Road and Rail
AICS	Australian Inventory of Chemical Substances
ASCC	Australian Safety & Compensation Council
CAS Number	Chemical Abstracts Service Registry Number
HAZCHEM Number	Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
IARC	International Agency for Research on Cancer
IATA	International Air Transport Authority
IMDG	International Maritime Dangerous Good
IMSBC	International Maritime Solid Bulk Code
NOHSC	National Occupational Health and Safety Commission
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
SWA	Safe Work Australia (formerly ASCC and NOHSC)
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice" (July 2020)

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