


# Safety Data Sheet

Bud Mate™ SDS revision 04 6<sup>th</sup> February 2023

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	Bud Mate™
<b>Other Names</b>	None
<b>Uses:</b>	Plant food, activator and catalyst for professional applicators
<b>Chemical family</b>	Plant/ crop nutrition
<b>Chemical formula</b>	Compounded product, no data available
<b>Chemical name</b>	Compounded product, no data available
<b>Product description</b>	Liquid fertiliser, for the correction and prevention of plant nutrient deficiencies
<b>Contact details of the supplier of this Safety Data Sheet – New Zealand</b>	
Company Name	Vicentia New Zealand Ltd
Company address	Suite 3, 27 Bath Street, Parnell Auckland 1052 New Zealand
Phone number	0800 379 180
Emergency contact	Poison Information Centre New Zealand – <b>0800 764 766</b>

## 2. HAZARD IDENTIFICATION

<b>Poisons Schedule (Australian)</b>	Not listed in SUSMP
<b>Globally Harmonised System (GHS) Hazard classification (Australia and New Zealand)</b>	This product is classified as hazardous under GHS
<b>Hazard Category</b>	Toxic to reproduction: Category 1B
<b>Pictograms</b>	
<b>Signal word</b>	Danger
<b>Hazard Statements</b>	H360FD May damage fertility. May damage the unborn child
<b>Prevention</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required.
<b>Response</b>	P308+313 If exposed or concerned: Get medical attention.
<b>Storage</b>	P405 Store locked up
<b>Disposal</b>	P501 Dispose of contents & container in accordance with local, state and federal regulations.
<b>National Transport Commission (New Zealand)</b>	
NZS 5433:2020 Transport of Dangerous Goods on Land	
Is NOT classified as a Dangerous Good according to NZS 5433:2020 Transport of Dangerous Goods on Land., refer to section 14 of this SDS.	

3. INFORMATION ON INGREDIENTS		
Ingredient	CAS Registry number	Proportion %w/w
Boric acid	10043-35-3	< 10
No other ingredients present which to the current knowledge of Agrichem & in the concentrations present are classified as hazardous and thereby require reporting in this section. Any value shown as a range is to preserve confidentiality or is due to batch variation.		

4. FIRST AID MEASURES	
Description of necessary measures according to routes of exposure	
<b>Swallowed</b>	Rinse mouth with water. Drink plenty of water/milk if possible. Do not induce vomiting, seek medical advice immediately. Take this SDS with you to the medical examination.
<b>Eye</b>	Immediately flush with plenty of water, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes. Immediately call a Poison Centre or doctor for advice.
<b>Inhalation</b>	Avoid breathing mist, spray or vapour. Remove person to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical attention. Apply resuscitation if person is not breathing and administer oxygen if breathing is difficult. Consult a medical doctor immediately.
<b>Skin</b>	Remove contaminated clothing immediately and wash with soap and plenty of water and soap. If skin irritation occurs, get medical attention. Wash contaminated clothing before reuse.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of patient. If patient has inhaled decomposition product (fire) symptoms may be delayed. Exposed person to remain under medical observation for 48 hours.
<b>Medical Conditions Aggravated by Exposure</b>	No data available
Have the product container or label with you when calling the Poison Information Centre or a doctor or going for treatment.	

5. FIRE FIGHTING MEASURES	
<b>General measures</b>	Clear area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
<b>Flammability conditions</b>	Non-flammable, aqueous suspension.
<b>Extinguishing Media</b>	Use any means suitable for extinguishing surrounding fire.
<b>Fire and Explosion Hazard</b>	Containers if heated, resultant increase in pressure may cause container to burst. Do not inhale fumes and or gases of combustion.
<b>Hazardous Products of Combustion</b>	No data available
<b>Special Fire Fighting Instructions</b>	Do NOT allow firefighting water to reach waterways, drains or sewers. Store firefighting water for treatment.
<b>Personal Protective Equipment</b>	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves).
<b>Flash point</b>	Not applicable to inorganic solids.
<b>Lower Explosion Limit</b>	No data available
<b>Upper Explosion Limit</b>	No data available
<b>Auto ignition Temperature</b>	No data available
<b>Hazchem Code</b>	Not applicable

## 6. ACCIDENTAL RELEASE MEASURES


<b>General Response Procedures</b>	Avoid accidents, clean up immediately. Slippery when spilt. Increase ventilation. Avoid generating dust from dried product. Stop leak if safe to do so. Isolate the danger area.
<b>Clean up Procedures</b>	Land spill: Dike spill with absorbent or impervious materials such as earth, sand or clay. Vacuum, shovel, pump or sweep up the product and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during clean up and disposal. See containment section below.  Spillage into water. Where possible, remove any intact containers from the water. Advice to local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns water to normal environmental background levels.
<b>Containment</b>	Stop leak if safe to do so. Cover drains near the polluted area. Contain and absorb spill using inert absorbent materials such as earth, sand, clay, zeolite, or diatomaceous earth.
<b>Environmental Precautionary Measures</b>	DO NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority and local Waste Management. The product is soluble in water (see section 12).
<b>Evacuation Criteria</b>	Evacuate all unnecessary personal from immediate area.
<b>Personnel Precautionary Measures</b>	Personnel involved in the clean-up should wear protective clothing as listed in section 8.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Prevent against physical damage. Wash hands after handling this material. Good housekeeping, splash and dust (when product dries) prevention procedures should be followed to minimize exposure and accumulation. Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Avoid contact with eyes, skin and clothing. Do not inhale product mist, spray or fumes.
<b>Storage</b>	Store in a cool, dry, well-ventilated area. Keep containers tightly closed if not in use. Inspect regularly for hazards such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Do not store with food stuffs. Use good housekeeping practices to prevent accumulation of product and follow sound cleaning techniques that will prevent contamination. Dry indoor storage is recommended. Provide appropriate ventilation and store containers such as to prevent any accidental damage.
<b>Container / Tankage</b>	Store in original packaging as approved by manufacturer.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	No specific exposure standards have been established for this product by Safe Work Australia.
<b>Exposure Limits</b>	No data available, however all atmospheric contamination should be kept to as low a level as is workable.
<b>Biological Limits</b>	No information on biological limit values available for this product, however all atmospheric contamination should be kept to as low a level as is workable and default threshold limit value of 5 mg/m <sup>3</sup> as a time weighted average for liquefied mists.
<b>Engineering Measures</b>	A system of local and or general exhaust is recommended to keep employee exposure as low as possible. Local exhaust extraction/ventilation is preferred as it controls emissions at the source preventing dispersion of it into the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded.

<b>Personal Protection Equipment PPE</b>	
	RESPIRATOR: Respirators should be used for conditions of use where exposure to spray or mist is apparent and engineering controls are not feasible.
	EYES: Use chemical safety goggles. Maintain eye wash fountain and quick drench facilities in work area (AS/NZS1336/1337). An emergency eyewash or water supply should be readily accessible to the work area.
	HANDS: Gloves, impervious/chemical resistant (AS/NZS2161).
	CLOTHING: Lab coat, apron or coveralls and safety footwear (AS/NZS3765/2210).
<b>Work Hygienic Practices</b>	Thoroughly wash hands, forearms and face after using product, prior to eating, smoking using toilet or at end of work. Contaminated clothing to be laundered prior to re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid
<b>Appearance</b>	Suspension
<b>Odour</b>	Characteristic
<b>Colour</b>	Off white to brown
<b>pH</b>	8.0 – 9.5
<b>Vapour Pressure</b>	No data available
<b>Relative Vapour Density</b>	No data available
<b>Boiling Point</b>	>100°C
<b>Melting Point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Solubility in water</b>	Sparingly soluble in water (aqueous suspension)
<b>Specific Gravity</b>	1.57 – 1.59
<b>Flash Point</b>	No data available
<b>Auto Ignition Temp</b>	No data available
<b>Decomposition Temp</b>	No data available
<b>Bulk Density</b>	No data available
<b>Particle Size Distribution</b>	No data available
<b>Viscosity</b>	>800 centipoise
<b>Note:</b> Physical data are 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

<b>General Information</b>	This product is stable under normal handling and storage conditions.
<b>Chemical Stability</b>	Stable under ordinary conditions.
<b>Conditions to Avoid</b>	Excessive heat, do not store near heat or flames or temperatures below 5°C.
<b>Materials to Avoid</b>	<ol style="list-style-type: none"> <li>1. Strong bases – ammonia may evolve</li> <li>2. Strong acids – may react</li> <li>3. Strong oxidising agents – may decompose</li> </ol>
<b>Hazardous Products of Decomposition</b>	No data available
<b>Hazardous Polymerisation</b>	No data available

## 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	No data available Exposure by all routes should be minimised under good product stewardship.
<b>Eye Irritant</b>	No data available
<b>Ingestion</b>	Oral LD50 via ATE >3500 mg/kg May cause diarrhoea, nausea, vomiting, cramps, weakness and tiredness
<b>Inhalation</b>	No data available

<b>Skin Irritant</b>	No data available
<b>Reproduction</b>	May damage fertility. May damage the unborn child.
<b>Carcinogen Category</b>	No data available
<b>Mutagenicity</b>	No data available
<b>Information on toxicological effects by ingredients where available</b>	
Boric acid	Oral LD50 >3500 mg/kg in the Rat

<b>12. ECOLOGICAL INFORMATION</b>	
<b>General Ecotoxicity</b>	Adopt good working practices and procedures to restrict environmental release.
Algal toxicity	No data available
Invertebrate toxicity	No data available
Vertebrate toxicity	No data available
<b>Persistence/ Degradability</b>	Readily biodegradable in plant and soil.
<b>Mobility</b>	Largely Insoluble in water.
<b>Environmental Fate</b>	Do NOT let product reach waterways, drains and sewers.
<b>Bioaccumulation</b>	Low as all elements in product are essential to plant life.
<b>Environmental impact</b>	No data available
<b>Ecological hazard by ingredient, where available</b>	
Boric acid	EC <sub>50</sub> 40 mg/l in the Green algae 72 hour exposure LC <sub>50</sub> 760mg/l in the Daphnia magna 48 hour exposure

<b>13. DISPOSAL CONSIDERATIONS</b>	
<b>General Information</b>	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
<b>Special Precautions for Landfill</b>	Small quantities of this product can usually be disposed of at Liquid Waste Disposal sites. No special disposal treatment is required, but local authorities should be consulted about any specific local requirements. Larger volumes of this product are not recommended to be sent to Liquid Waste Disposal sites. Such product should, if possible, be used for an appropriate application.

<b>14. TRANSPORTATION INFORMATION</b>	
<b>Land Transport, Australian Dangerous Goods Code (ADG Code) for transport by road and rail.</b>	
<b>DG classification</b>	Not listed in ADG Code
<b>Regulation: ADG</b>	
<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not applicable
<b>Transport hazard class (es)</b>	Not applicable
<b>Packaging group</b>	Not applicable
<b>Environmental hazard</b>	No applicable
<b>Additional information</b>	Not applicable
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for LAND transport
<b>Land Transport, NZS 5433:2020 Transport of Dangerous Goods on Land.</b>	
<b>DG classification</b>	Not classified as dangerous goods.
<b>Regulation: NZS 5443:2020</b>	

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not applicable
<b>Transport hazard class (es)</b>	Not applicable
<b>Packaging group</b>	Not applicable
<b>Environmental hazard</b>	No applicable
<b>Additional information</b>	Not applicable
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for LAND transport
<b>Regulation: IMDG</b>	
<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not applicable
<b>Transport hazard class (es)</b>	Not applicable
<b>Packaging group</b>	Not applicable
<b>Environmental hazard</b>	Not applicable
<b>Marine pollutant</b>	No
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for SEA transport
<b>Regulation: IATA</b>	
<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not applicable
<b>Transport hazard class (es)</b>	Not applicable
<b>Packaging group</b>	Not applicable
<b>Environmental hazard</b>	Not applicable
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for AIR transport

#### 15. REGULATORY INFORMATION

<b>General information</b>	Not a dangerous goods under ADG Code and NZS 5433:2020.
<b>Poisons Schedule</b>	Not listed in SUSMP
<b>Hazardous Chemical Information system (HCIS)</b>	Hazardous ingredients are listed in HCIS
<b>NZ Group Standard</b>	Fertilisers (Subsidiary Hazard) Group Standard 2020 (HSR002571)

#### 16. OTHER INFORMATION

The information contained in this SDS is by way of general comment only. Because conditions of use, suitability of product and application conditions are beyond the control of Agrichem, this SDS does not offer any advice in respect to any product. The authors and Agrichem hereby disclaim any liability to any person, property, or thing in respect of any consequence of anything done or omitted to be done by any person in reliance, whether wholly or in part, upon whole or part of the contents of this SDS.

## KEY

< Less than

> Greater than

**a.i.** Active ingredient

**ADG Code** Australian dangerous goods code

**AICS** Australian Inventory of Chemical Substances

**ATE** Acute toxicity estimation

**atm** Atmosphere

**CAS** Chemical Abstract Service (registry number)

**Cm<sup>2</sup>** Square Centimetres

**CO<sub>2</sub>** Carbon Dioxide

**deg C (°C)** Degrees Celsius

**EPA** Environmental Protection Agency based in each state of Australia

**g** Grams

**g/cm<sup>3</sup>** Grams per Cubic Centimetre

**g/l** Grams per Litre

**GRAS** Generally recognised as safe

**HSIS** Hazardous substances information system

**HSNO** Hazardous substances and New Organism

**HDPE** High density polypropylene

**IDLH** Immediately Dangerous to Life and Health

**Immiscible** Liquid are insoluble in each other

**inHg** inch of Mercury

**InH<sub>2</sub>O** Inch of Water

**K** Kelvin

**kg** Kilogram

**kg/m<sup>3</sup>** Kilogram per Cubic Metre

**LC<sub>50</sub>** LC stands for lethal concentration, LC<sub>50</sub> is the concentration of a product in air that will cause the death of 50% of a population of test animals. Product is normally inhaled for between 1 and more typically 4 hours

**LD<sub>50</sub>** LD stands for lethal dose. LD<sub>50</sub> is the amount of product given in a single dose, causing death in 50% of a population of test animals.

**End of SDS**

**LDLo** The lowest amount of a solid or liquid material reported to have caused the death of animals or humans

**m<sup>3</sup>** Cubic Metre

**mbar** Millibar

**mg** Milligram

**mg/24H** Milligrams per 24 hours

**mg/kg** Milligrams per Kilogram

**mg/m<sup>3</sup>** Milligrams per Cubic Metre

**Misc** or **Miscible** Liquids from one homogeneous liquid phase regardless of the amount of either component present

**mm** Millimetre

**mmH<sub>2</sub>O** Millimetres of Water

**mPa.s** Millipascals per Second

**MSHA** Mine safety and health

administration

**N/A** Not Applicable

**NIOSH** National Institute for Occupational Safety and Health

**NOHSC** National Occupational Health and Safety Commission

**OECD** Office for Economic Co-operation and Development

**PEL** Permissible Exposure Limit

**Pa** Pascal

**ppb** Parts per Billion

**PPE** personal protective equipment

**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

**SCBA** Self Contained Breathing Apparatus

**SWA** Safe Work Australia

**STEL** Short Term Exposure Limit

**SUSMP** Standard for the uniform scheduling of medicines and poisons

**TVL** Threshold Limit Value

**TWA** Time Weighted Average

**UN** United Nations

**wt** Weight