

SAFETY DATA SHEET

PRODUCT NAME: BRATAN WS 18-8-15 + 2Mg + TE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Recommended use: Water soluble fertiliser
Other Names: N/A
Supplier: Baileys Fertilisers
Address: 24 Beach St
 Kwinana Beach
 Western Australia 6167
Telephone: (08) 9439 1688 (Monday to Friday: 8.00am – 5.00pm)
Emergency Contact: Poisons Information Centre on 13 11 26
Facsimile: (08) 9439 1068
Email: baileys@baileysfertiliser.com.au
Website: baileysfertiliser.com.au

2. HAZARD IDENTIFICATION

- 1. GHS Classification:** Not hazardous according to Australian Criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).
- 2. Signal Word:** None applicable.
- 3. Hazard Category(s):** None applicable.
- 4. Hazard Symbol:** None applicable.
- 5. Hazard Statement(s):** None applicable.
- 6. Precautionary Statements:** None applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Contents % w/w
Potassium Nitrate	7757-79-1	< 55
Ammonium Nitrate	6484-52-2	< 45
Potassium Pentahydrogen Bis(phosphate)	14887-42-4	< 10
Urea Phosphate	4861-19-2	< 10
Boric Acid	10043-35-3	< 0.2

4. FIRST AID MEASURES

Eye Contact: Rinse immediately with plenty of water for 15 minutes. Contact lenses should be removed. If eye irritation persists: Get medical advice/attention.

Skin Contact: In case of irritation, remove clothing. Before washing use a dry brush to remove dust from skin. Rinse and then wash skin thoroughly with water and soap. Take victim to a doctor if irritation persists. Wash contaminated clothing before reuse.

Inhalation: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

Ingestion: If victim conscious and alert, give 2-3 glasses of water to drink. Do not give an unconscious person anything to drink. Victim is fully conscious: immediately induce vomiting. Keep watching the victim. Consult a doctor/medical service if you feel unwell.

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First Aid Treatment and note to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The product can cause methemoglobinemia. Medical control during 48 hours after exposure is necessary.

5. FIRE FIGHTING MEASURES

Flammability: Product is not self-ignitable, but may support combustion.

Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions, preferably water. Spray water for small fires. For large fires flood with abundant water. **Do not** use foam chemical extinguishers. **Don't use** steam or sand to extinguish fire.

Hazardous Products of Combustion: On heating/combustion: formation of toxic and corrosive gases/vapours (ammonia, nitrous vapours, phosphorus oxides, potassium oxides, sulphur oxides, carbon monoxide/carbon dioxide) and formation of metallic fumes.

Special Fire Fighting Instructions: Dilute toxic gases with water spray. Cool tanks/drums with water spray/remove them into safety. Take account of environmentally hazardous firefighting water. Do not breathe fumes. Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. Exposure to fire/heat: keep upwind, consider evacuation and have neighbourhood close doors and windows.

Hazchem Code: None allocated.

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. See sections 8 and 13 for exposure controls and disposal.

Clean Up Procedures: For containment: Minimize generation of dust. Stop leaks if possible. Do not let the fertilizer to be mixed up with sawdust and oil lubricants. Dilute collected small fertilizer particles, mixing them with inert materials (limestone, dolomite, mineral phosphates, gypsum, sand) or dissolve in water.

Methods for cleaning up: Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information: Do not wash out with water in a sensitive environment. Dispose the product, depending on the degree and type of contamination, either as fertilizer or in an authorized waste disposal site.

Spill must not return in its original container.

Environmental precautions: Stop leaks if possible. Prevent uncontrolled discharges into the environment (rivers, water courses, sewers etc.). Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

7. HANDLING AND STORAGE

Precautions for safe 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. Where possible, use equipment resistant to corrosion.

Conditions for safe storage: Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

Specific end use(s): No information provided.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure standards:

Ammonium nitrate (6484-52-2)

DNEL/DMEL (Workers)
Long-term - systemic effects, dermal 5.12 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 36 mg/m³
DNEL/DMEL (General population)
Long-term - systemic effects, oral 2.56 mg/kg dwt
Long-term - systemic effects, inhalation 8.9 mg/m³
Long-term - systemic effects, dermal 2.56 mg/kg dwt

Potassium nitrate (7757-79-1)

DNEL/DMEL (Workers)
Long-term - systemic effects, dermal 20.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 36.7 mg/m³
DNEL/DMEL (General population)
Acute - systemic effects, oral 12.5 mg/kg bodyweight
Long-term - systemic effects, inhalation 10.9 mg/m³
Long-term - systemic effects, dermal 12.5 mg/kg bodyweight/day

Potassium pentahydrogen bis(phosphate) (14887-42-4)

DNEL/DMEL (Workers)
Long-term - systemic effects, inhalation 4.07 mg/m³
DNEL/DMEL (General population)
Long-term - systemic effects, inhalation 3.04 mg/m³

Boric Acid (10043-35-3)

DNEL/DMEL (Workers)
Long-term - systemic effects, dermal 392 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 8.3 mg/m³
DNEL/DMEL (General population)
Acute - systemic effects, oral 0.98 mg/kg bodyweight
Long-term - systemic effects, oral 0.98 bw/day
Long-term - systemic effects, inhalation 4.15 mg/m³
Long-term - systemic effects, dermal 196 mg/kg bodyweight/day

Urea phosphate (4861-19-2)

DNEL/DMEL (Workers)
Long-term - local effects, inhalation 2.92 mg/m³
DNEL/DMEL (General population)
Long-term - local effects, inhalation 0.73 mg/m³

Biological limits:

No biological limit values have been entered for this product.

Exposure controls

Engineering controls:

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

PPE:

Eye / Face	Wear protective glasses or goggles.
Hands	Wear PVC or rubber gloves.
Body	Wear coveralls to prevent skin contact.

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Respiratory At high dust levels, wear a Class 2 respirator.



Work Hygienic Practices: Do not eat, drink or smoke when using this product. Do not ingest. Avoid contact with eyes and prolonged or repeated contact with skin. Wash thoroughly after handling. Remove contaminated clothing and shoes immediately and rinse with plenty of water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to off-white crystalline solid
Odour	Odourless
Flash Point	Not relevant
Boiling Point	Not available
Melting Point	Not available
Decomposition Point	Not available
pH	Not available
Bulk Density	Not available
Solubility (water)	Soluble

10. STABILITY AND REACTIVITY

General Information:	Review the below information carefully. Stable under normal conditions and use.
Chemical stability:	Stable under recommended conditions of storage.
Possibility of hazardous reactions:	The product does not present any particular risk, under normal conditions of use.
Conditions to avoid:	Avoid high temperatures. Prevent moisture contact.
Materials to Avoid:	May be corrosive to some metals. Do not allow to mix with sawdust and other combustible or organic substances. Storage with combustible substances, agents, acids, alkali, sulphur, chlorates, chlorides, chromates, nitrites, permanganates, metal powders and substances containing such materials as copper, nickel, cobalt, zinc and alloys of any of the aforementioned materials is not recommended.
Hazardous decomposition products:	On heating/combustion: formation of toxic and corrosive gases/vapours (ammonia, nitrous vapours, phosphorus oxides, potassium oxides, sulphur oxides, carbon monoxide/carbon dioxide) and formation of metallic fumes.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute toxicity:	Present low toxicity, ingestion of large quantities may result in gastrointestinal irritation, nausea and vomiting. The product can cause methemoglobinemia.
Skin:	Contact may result in irritation and rash.
Eye:	Causes serious eye damage.

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Inhalation:	Low irritant. Overexposure may result in mucous membrane irritation (of the nose and throat) with coughing.
Sensitisation:	This product is not known to be a skin or respiratory sensitiser.
Mutagenicity:	No evidence of mutagenic effects.
Carcinogenicity:	No evidence of carcinogenic effects.
Reproductive:	No evidence of reproductive effects.
Chronic effects:	No chronic effects known.
STOT – single exposure:	Not classified as causing organ effects from acute exposure.
STOT – repeated exposure:	Not classified as causing organ effects from repeated exposure.
Aspiration:	Not relevant.

Ammonium nitrate (6484-52-2)

LD50 oral rat 2950 mg/kg (OECD 401)
LD50 dermal rat > 5000 mg/kg (OECD 402)
LC50 inhalation rat (mg/l) 88.8 mg/l

Potassium nitrate (7757-79-1)

LD50 oral rat 3750 mg/kg OECD Guideline 405
LD50 dermal rat > 5000 mg/kg bw/day OECD Guideline 402
LC50 inhalation rat (mg/l) > 0,527 mg/l/4h OECD Guideline 403

Urea phosphate (4861-19-2)

LD50 oral rat 2600 mg/kg (OECD 423)

Boric Acid

LD50 oral rat > 2600 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral, 15 day(s))
LD50 dermal rabbit > 2000 mg/kg (FIFRA (40 CFR), 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l) > 2.12 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))

Potassium pentahydrogen bis(phosphate) (14887-42-4)

LD50 oral rat > 2000 mg/kg (OECD 425)
LD50 dermal rat > 2000 mg/kg (OECD 402)

12. ECOLOGICAL INFORMATION

Ecotoxicity: Ammonium nitrate (6484-52-2)

LC50 fish 1 447 mg/l 48-h
EC50 Daphnia 1 490 mg/l (freshwater)

Potassium nitrate (7757-79-1)

LC50 fish 1 162 mg/l (96 h; Pisces)
LC50 other aquatic organisms 1 39 mg/l (96 h; Daphnia magna)
EC50 other aquatic organisms 1 200 - 1000 mg/l (Plankton)
LC50 fish 2 1378 mg/l (96 h; Poecilia reticulata)
LC50 other aquatic organisms 2 490 mg/l (48 h; Daphnia magna)

Urea phosphate (4861-19-2)

LC50 fish 1 > 9100 mg/l (96 Hours)
EC50 Daphnia 1 > 100 mg/l (48-h; OECD 202 with phosphoric acid)
ErC50 (algae) > 100 mg/l (72-h; OECD 201 with phosphoric acid)
NOEC (acute) 100 mg/l (3-h; OECD 209)

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Boric acid (10043-35-3)

LC50 fish 1 79.7 mg/l (EPA OPPTS 850.1075, 96 h, Pimephales promelas, Static system, Fresh water, Read-across)

ErC50 (algae) 52.4 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Weight of evidence, GLP)

Potassium pentahydrogen bis(phosphate) (14887-42-4)

LC50 fish 1 > 100 mg/l (OECD 203, freshwater, Oncorhynchus mykiss, read-across)

EC50 Daphnia 1 > 100 mg/l (OECD 202, freshwater, read-across)

Persistence and degradability: In aqueous solution, the main components are completely dissociated.

Bioaccumulative potential: Low potential for bioaccumulation.

Mobility in soil: This substance is highly water soluble and dissociating. Low potential for adsorption to soil.

Environmental fate: Prevent entry into drains and waterways. Product may act as a plant nutrient and cause eutrophication.

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal: Collect and place in sealable containers and dispose of to an approved landfill site. Contact the manufacturer / supplier for additional information (if required).

Special Precautions for Land Fill: Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG or IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG)	AIR TRANSPORT (IATA / ICAO)
UN Number	N/A		
Proper Shipping Name	N/A		
Transport Hazard Class	N/A		
Packing Group	N/A		

15. REGULATORY INFORMATION

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrases listed are based on the Approved Criteria for Classifying Hazardous Substance [NOHSC: 1008(2004)].

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

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16. OTHER INFORMATION

Disclaimer

This document has been prepared by Baileys Fertilisers and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

While Baileys Fertilisers has taken all due care to include accurate and up to date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Baileys Fertilisers accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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Issue

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Date

18/03/2020

End of SDS