

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Basacote Plus 12M

Product Use: Fertiliser

Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticentre Ltd Address: 10 Firth Street Drury, 2113

Telephone: +64 9 294 8453 Fax Number: +64 9 294 7272

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 24 March 2022

Section 2. Hazards Identification

Classified as hazardous according to Regulation (EC) No. 1272/2008 which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval No: Fertilisers (subsidiary) - HSR002571

Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement Harmful to aquatic life with long	
Hazardous to the aquatic	H412	Harmful to aquatic life with long	
environment chronic Cat. 3		lasting effects.	

Prevention Code	Prevention Statement	
P103	Read label before use.	
P273	Avoid release to the environment.	

Response Code	Response Statement
None allocated	

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

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Ingredients	Wt%	CAS NUMBER.
Ammonium nitrate	>10-<45	6484-52-2
Borates, tetra sodium salts, pentahydrate	<0.2	12179-04-3
Copper sulphate	<u>></u> 0.1 - <u><</u> 0.25	7758-98-7

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. If eye irritation persists: Get

medical advice.

If on Skin Wash with plenty of soap and water. If skin irritation occurs: get medical

advice/attention.

If Swallowed Rinse mouth. Drink plenty of water. Never give anything to the mouth of

an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit

entering the lungs. Seek medical attention if needed.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult. In case of lung irritation, first treatment with

dexametason aerosol (spray).

Most important symptoms and effects, both acute and delayed

Symptoms: Ingestion may provoke the following symptoms: Methaemoglobinemia

Risk: Later control for pneumonia and lung oedema

Notes to Doctor: Treat symptomatically. There is no specific antidote available.

Section 5. Fire Fighting Measures

Hazard Type	Non-combustible substance with oxidizing ingredient	
Hazards from	Thermal decomposition can lead to release of irritating gases	
combustion	and vapours.	
products	Nitrogen oxides (NOx)	
	Ammonia.	
Suitable	Water	
Extinguishing	Not suitable: Foam, Dry chemical, Carbon dioxide (CO ₂) and Sand	
media		
Precautions for	Self-contained breathing apparatus. Fire residues and contaminated fire	
firefighters and	extinguishing water must be disposed of in accordance with local	
special protective	regulations.	
clothing		
HAZCHEM CODE	1Z	

Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. Avoid dust formation. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Use mechanical handling equipment for cleanup.

Do not empty into drains. Retain and dispose of contaminated wash water.

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Section 7. Handling and Storage

Precautions for Handling:

- Always read the label and product information before use.
- The product is not flammable.
- Keep away from heat and sources of ignition.
- · Keep away from combustible materials.
- Protect from contamination.
- · Keep away from direct sunlight.
- Protect against heat.
- Protect from contamination.
- Protect from moisture.
- At the end of the shift the skin should be cleaned and skin care agents applied.

Precautions for Storage:

- Do not store together with strong acids, bases and combustible materials.
- Keep away from direct sunlight.
- Protect from moisture.
- When stored loose do not mix with other fertilizers.
- Keep in a dry place and away from moisture.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2020 12TH EDITION.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Ammonia Nitrate	Workers	Inhalation	Long-term systemic effects	36 mg/m ³
	Workers	Skin Contact	Long-term systemic effects	5.12 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2.56 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	8.9 mg/m ³
	Comsumers	Skin contact, inhalation	Long-term systemic effects	2.56 mg/kg bw/day
Borates, tetra sodium salts, pentahydrate	Workers	Inhalation	Long-term exposure	5.7 mg/m ³
	Consumers	Inhalation	Long-term exposure	3.4 mg/m ³
	Workers	Skin Contact	Long-term exposure	316.4 mg/kg bw/day

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Consumers	Skin Contact	Long-term exposure	159,5 mg/kg bw/day
Consumers	Ingestion	Long-term exposure Short-term exposure	8.79 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance Name Environmental Compartment		Value
Ammonia Nitrate	Sewage treatment plant	18 mg/l
Borates, tetra sodium salts, pentahydrate	Fresh water	2.9 mg/l
	Marine water	2.9 mg/l
	Soil	5.7 mg/kg
	Intermittent use/release	13.7 mg/l
	Sewage treatment plant	10 mg/l

Engineering Controls

Ensure adequate ventilation is available

Personal Protection Equipment

Eyes	In case of dust formation wear safety glasses.
Hands and	Wear gloves.
Skin	
Respiratory	Breathing apparatus only if aerosol or dust is formed. Respirator with a
	particle filter (EN 143) - P1 filter

Section 9 Physical and Chemical Properties

Appearance	Various colours - Solid
Odour	Odourless
Odour Threshold	Not available
pH	ca. 5 Concentration: 100 g/l (20 °C)
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	The product is not flammable.
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Bulk Density	ca. 1.150 kg/m ³
Solubilities	Soluble
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Decomposition	> 130 °C
Temperature	To avoid thermal decomposition, do not overheat.
Kinematic Viscosity	Not available
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.	
Hazardous reactions	Evolution of ammonia under influence of alkalis.	
Conditions to Avoid	Keep away from heat and sources of ignition	

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Incompatible Materials	Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or	
	alkaline reacting substances, flammable oxidizable substances,	
	nitrites, metallic salts, metallic powder, herbicide, chlorinated	
	hydrocarbons, organic compounds.	
Hazardous Decomposition	Nitrogen oxides (NOx) and ammonia.	
Products		

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. Product= LD50 (Rat) = >2000mg/kg	
Dermal	Not applicable.	
Inhalation	Not applicable.	
Eye	Not applicable.	
Skin	Not applicable.	

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive	Not applicable.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Components:

ammonium nitrate:

Acute oral toxicity : LD50 (Rat): > 2.950 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : > 88,8 mg/l

Method: No information available.

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

: LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 402

Borates, tetra sodium salts, pentahydrate:

Acute oral toxicity : LD50 (Rat): 3.200 - 3.400 mg/kg

Method: No information available

Acute inhalation toxicity : LC50 (Rat): > 2,0 mg/l

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Method: No information available

Copper sulphate:

Acute oral toxicity : LD50 Oral (Rat): 300 mg/kg

Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

Components:

ammonium nitrate:

Toxicity to fish : LC50 (Fish): > 100 mg/l

Exposure time: 96 h

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Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 490 mg/l

Exposure time: 48 h

LC50: 490 mg/l

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 1.700 mg/l

Exposure time: 10 d

Borates, tetra sodium salts pentahydrate:

Toxicity to fish : LC50 (Fish): 74 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 242 mg/l

Exposure time: 24 h

Toxicity to algae : EC10 (Scenedesmus subspicatus): 24 mg/l

Exposure time: 96 h

copper sulphate:

Toxicity to fish:

LC50 (Salmo sp.): 0,1 - 2,5 mg/l Exposure time: 96 h

Toxicity to daphnia and

other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0,024 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus quadricauda (Green algae)): 0,1 mg/l

Exposure time: 4 h

Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.	
Bioaccumulation	Bioaccumulation is unlikely. Partition coefficient: n : log Pow: -3,1 octanol/water	
Mobility in Soil	Groundwater contamination is unlikely.	
Other adverse effects	No data available.	

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method: Contaminated packaging should be emptied as far as possible then it can

be passed on for recycling after being thoroughly cleaned.

Disposal methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

This product is **NOT** classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 Regulatory Information

Classified as hazardous according to Regulation (EC) No. 1272/2008 which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval No: Fertilisers (subsidiary) - HSR002571

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000Kg

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Emergency Response Plan	1000kg
Secondary Containment	1000kg
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

Cat Category

EC₅₀ Median effective concentration. EEL Environmental Exposure Limit. EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2012

5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources 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. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have 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, TCC (NZ) Ltd accept 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

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

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