

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Basfoliar Inicial 26-10-10**
 Product Use: Fertiliser
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticulture 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

Pictograms:



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P103	Read label before use.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove

P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

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

Ingredients	Wt%	CAS NUMBER.
Potassium nitrate	≥10-≤25	7757-79-1
Boric Acid	<0.5	11113-50-1
Zinc sulphate	≥1 - <2.2	7733-02-0
Manganese Sulphate (1:1)	≥1 - <2.85	7785-87-7
disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-)	≤0.5	14025-15-1

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.

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	Thermal decomposition can lead to release of irritating gases and vapours. Nitrogen oxides (NOx) Ammonia.
Suitable Extinguishing media	Water, water spray
Precautions for firefighters and special protective clothing	Self-contained breathing apparatus. Do not breathe fumes. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
HAZCHEM CODE	None allocated.

Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. Avoid contact with eyes.

Use mechanical handling equipment for cleanup.

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

Section 7. Handling and Storage**Precautions for Handling:**

- Read label before use.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- At the end of the shift the skin should be cleaned and skin care agents applied.

Precautions for Storage:

- Keep away from heat.
- Keep away from sources of ignition - No smoking.
- Keep away from direct sunlight.
- Keep away from combustible material.
- Protect from contamination.
- Protect against humidity (product is hygroscopic and tends to cake or disintegrate).

Section 8 Exposure Controls / Personal Protection**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

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
Potassium Nitrate	Workers	Inhalation	Systemic effects	36,7 mg/m ³
	Workers	Skin Contact	Systemic effects	20,8 mg/kg
Remarks	Exposure time: 1 day			
	Consumers	Ingestion	Systemic effects	12.5 mg/kg
Remarks	Exposure time: 1 day			

	Consumers	Inhalation	Systemic effects	10.9 mg/m ³
Boric Acid	Workers	Inhalation	Long-term exposure	8.28 mg/m ³
	Workers	Skin Contact	Long-term exposure	392 mg/kg
	Consumers	Ingestion	Short-term exposure Systemic effects	0.98 mg/kg
	Consumers	Ingestion	Long-term exposure Systemic effects	0.98 mg/kg
	Consumers	Inhalation	Long-term exposure Systemic effects	4.15 mg/m ³
	Consumers	Skin contact	Long-term exposure Systemic effects	196 mg/kg

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

Substance Name	Environmental Compartment	Value
Potassium nitrate	Fresh water	0.45 mg/l
	Marine water	0.045 mg/l
	Ceiling Limit Value	4.5 mg/l
	Sewage treatment plant	18 mg/l

Engineering Controls

Ensure adequate ventilation is available

Personal Protection Equipment



Eyes	Wear safety goggles or face shield.
Hands and Skin	Wear protective gloves.
Respiratory	Particle filtering disposable mask DIN EN 149 with filter FFP2

Section 9 Physical and Chemical Properties

Appearance	Light grey - Granular
Odour	Slight, stinging
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	Not readily ignited
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Bulk Density	ca. 1.100 kg/m ³

Solubilities	Soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Ca 155 °C 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	Hazardous decomposition products formed under fire conditions.
Conditions to Avoid	To avoid thermal decomposition, do not overheat.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Nitrose gases.

Section 11 Toxicological Information

Acute Effects:

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

Chronic Effects:

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

Components:

potassium nitrate:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
 Acute inhalation toxicity : LC50 (Rat): 0,527 mg/l
 Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

Boric acid:

Acute oral toxicity : LD50 (Mouse): 3.450 mg/kg
 : LD50 (Rat): 2.660 mg/kg
 Acute inhalation toxicity : LC50 (Rat): 2 mg/l
 Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

zinc sulphate:

Acute oral toxicity : LD50 (Rat): 862 - 4.429 mg/kg
 Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

manganese sulphate (1:1):

Acute oral toxicity : LD50 (Rat): 2.150 mg/kg

disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):

Acute oral toxicity : LD50 (Rat): 890 mg/kg
Acute inhalation toxicity : LC50 (Rat): 5,32 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 436

Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

Components:**potassium nitrate:**

Toxicity to fish : LC50 (Fish): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 490 mg/l
Exposure time: 48 h

Toxicity to algae : LC50 : >= 1.700 mg/l
Exposure time: 10 d

zinc sulphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,43 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,86 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus quadricauda (Green algae)): 0,52 mg/l
Exposure time: 120 h

Toxicity to bacteria : EC50 (Bacteria): 22,75 mg/l
Exposure time: 0,5 h

manganese sulphate (1:1):

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 30 mg/l

disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):

Toxicity to fish : LC50 (Fish): 555 mg/l Exposure time: 96 h

Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
Bioaccumulation	Bioaccumulation is unlikely.
Mobility in Soil	No data available.
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

Section 15 Regulatory Information

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

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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

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

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