

## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **Basfoliar 18+18+18 SP**  
 Item Code: 000000002323202899  
 Product Use: Fertiliser  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticulture Ltd  
 Address: 10 Firth Street  
 Drury, 2114

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

**Emergency Telephone: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 4 May 2022 v2

### Section 2. Hazards Identification

**Classified as hazardous as per EPA Hazardous Substances (Classification) Notice 2020.**

**EPA Approval No: Fertilisers (Oxidising) – HSR002570**

#### Pictograms



Oxidising



Irritant

Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Oxidising solids Cat. 3	H272	May intensify fire oxidiser.
Eye irritation Cat. 2	H319	Causes serious eye irritation.

Prevention Code	Prevention Statement
P103	Read label before use.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P220	Keep/Store away from clothing and combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing.

Response Code	Response Statement
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use water

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.
ammonium nitrate	≥10 - <45	6484-52-2
potassium nitrate	≥10 - ≤45	7757-79-1

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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:

Inhalation: Not applicable.

Ingested: Ingestion may provoke the following symptoms: Methaemoglobinemia

Skin: Not applicable.

Eye: Causes serious eye irritation.

Risks : Later control for pneumonia and lung oedema.

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

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Oxidiser
<b>Hazards from combustion products</b>	Thermal decomposition can lead to release of irritating gases and vapours. Nitrogen oxides (NOx) and ammonia.
<b>Suitable Extinguishing media</b>	Water Not suitable: Foam, Dry chemical, Carbon dioxide (CO <sub>2</sub> ) and Sand

<b>Precautions for firefighters and special protective clothing</b>	Self-contained breathing apparatus. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations
<b>HAZCHEM CODE</b>	<b>1Y</b>

**Section 6. Accidental Release Measures**

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel.

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:**

- Keep out of reach of children.
- Read label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep/Store away from clothing and combustible materials.
- Take any precaution to avoid mixing with combustibles.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective clothing.

**Precautions for Storage:**

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

**Section 8 Exposure Controls / Personal Protection**

**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>

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
<b>Ammonium Nitrate</b>	Workers	Inhalation	Long-term systemic effects	36 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	5.12 mg/kg/bw/day
	Consumers	Ingestion	effects	2.56 mg/kg/bw/day
	Consumers	Inhalation	Long-term systemic effects	8.9 mg/m <sup>3</sup>
	Consumers	Skin contact, ingestion	effects	2.56 mg/kg/bw/day
<b>Potassium</b>	Workers	Inhalation	Systemic effects	36.7 mg/m <sup>3</sup>

<b>Nitrate</b>				
	Workers	Skin contact	Systemic effects	20.8 mg/kg
Remarks:	Exposure: 1d			
	Consumers	Ingestion	Systemic effects	12.5 mg/kg
Remarks:	Exposure: 1d			
	Consumers	Skin contact	Systemic effects	12.5 mg/kg
Remarks:	Exposure: 1d			
	Consumers	Inhalation	Systemic effects	10.9 mg/m <sup>3</sup>

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

Substance Name	Environmental Compartment	Value
Ammonium Nitrate	Sewage treatment plant	18 mg/l
Pottassium 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:**



<b>Eyes</b>	In case of dust formation: Safety glasses
<b>Hands and Skin</b>	Wear gloves.
<b>Respiratory</b>	Particle filtering disposable mask DIN EN 149 with filter FFP2

**Section 9 Physical and Chemical Properties**

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

**Section 10. Stability and Reactivity**

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	Keep away from heat and sources of ignition.

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

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not applicable.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Causes severe irritation to eyes
<b>Skin</b>	Not applicable.

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	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  
Method: OECD Test Guideline 402

##### **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

## Section 12. Ecotoxicological Information

### Toxicity

#### Components:

##### **ammonium nitrate:**

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

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

**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

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	Bioaccumulation is unlikely.
<b>Mobility in Soil</b>	Groundwater contamination is unlikely.
<b>Other adverse effects</b>	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. Ensure waste container holding any unwanted product or contaminated spill media is labelled "Hazardous Waste – Oxidiser"

**Precautions:** depositing the substance in a landfill provided the landfill is managed to ensure that—

- (i) the substance will not at any time come into contact with an explosive or flammable substance (equivalent to HSNO class 1, 2, 3 or 4); and
- (ii) there is no ignition source in the vicinity of the disposal site that is capable of igniting the substance; and
- (iii) if the substance were to combust, or cause or contribute to combustion, no person or place where a person may legally be, would be exposed to more blast overpressure or heat radiation than that described in regulation 7(3)(b) of the Hazardous Substances (Disposal) Regulations 2001; and
- (iv) the concentration of the substance in any discharge from the landfill does not, after reasonable mixing, exceed any relevant tolerable exposure limit and/or environmental exposure limit set for the substance or any of its component(s).

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

**Section 14 Transport Information**

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**

Road and Rail Transport

UN No: 1479  
Class-primary 5.1  
Packing Group III  
Proper Shipping Name: OXIDIZING SOLID, N.O.S.  
(potassium nitrate, ammonium nitrate)

Air Transport

UN No: 1479  
Class-primary 5.1  
Packing Group III  
Proper Shipping Name: OXIDIZING SOLID, N.O.S.

(potassium nitrate, ammonium nitrate)

Marine Transport

UN No: 1479  
Class-primary 5.1  
Packing Group III  
Proper Shipping Name: OXIDIZING SOLID, N.O.S.  
(potassium nitrate, ammonium nitrate)

**Section 15 Regulatory Information**

EPA Approval Code: Fertilisers (Oxidising) – HSR002570

HSWA & EPA Controls	Trigger Quantity
Certified Handler	Not required
Location Certificate	Opened – 100kg / Closed – 1000kg
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000kg
Emergency Response Plan	5000kg
Secondary Containment	5000kg
Restriction of Use	None

**Trigger quantities for oxidizing fertilisers on farms:**

HSWA & EPA Controls for Farms >4 Ha	Trigger Quantity
Certified Handler	Not required
Location Certificate	Opened – 100kg / Closed – 3000kg
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	3000kg
Emergency Response Plan	5000kg
Secondary Containment	5000kg
Restriction of Use	None

**Section 16 Other Information**

**Glossary**

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

Product Name: Basfoliar 18+18+18 SP  
Date of SDS: 4 May 2022

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd  
Tel: 64 9 475 5240 www.techcomp.co.nz

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

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