SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	**Basfoliar 7-12-40-SP**
Item Code:	000000002324402899
Product Use:	Fertiliser
Restriction of Use:	Refer to Section 15
New Zealand Supplier:	HortFertplus
Address:	18 Cabernet Crescent Westgate, Auckland 0614
Telephone:	+64 9 478 5585
Emergency Telephone:	**0800 764 766 (National Poison Centre)**
Date of SDS Preparation:	27 October 2016

Section 2. Hazards Identification

This substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

EPA Approval No: Fertilisers (Oxidising) – HSR002570

Pictograms

Oxidising

Irritant

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
5.1.1C	H272	May intensify fire oxidiser.	Category 3
6.1E (oral)	H303	May be harmful if swallowed.	Category 5
6.3B	H316	Causes mild skin irritation.	Category 3
6.4A	H319	Causes serious eye irritation.	Category 2A
9.3C	H433	Harmful to terrestrial vertebrates.	

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
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.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing.

Response Code	**Response Statement**
P101	If medical advice is needed, have product container or label at hand.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
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.**
Potassium Nitrate	≥10-≤45	7757-79-1
Potassium Sulfate	≥3-≤20	7778-80-5

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.

Section 5. Fire Fighting Measures

Hazard Type	Oxidiser
Hazards from combustion products	Can decompose at above 130 °C. Thermal decomposition products: Nitrogen monoxide, nitrogen dioxide, dinitrogen oxide, ammonia, chloride, hydrogen chloride.
Suitable Extinguishing media	Water, water spray and dry chemical Not suitable: Foam, Carbon dioxide (CO_2) and Sand
Precautions for firefighters and special protective	Self-contained breathing apparatus.

clothing	
HAZCHEM CODE	**1Y**

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.
- Avoid release to the environment.
- Wear protective clothing.

Precautions for Storage:

- Do not store together with incompatible materials listed in Section 10.
- Protect from contamination.
- Protect from moisture.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

	TWA		STEL	
Substance	**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.

Engineering Controls
Ensure adequate ventilation is available

Personal Protection

Eyes	Wear goggles with side shields. Avoid wearing contact lenses.
Hands and Skin	Wear gloves. Wearing of closed work clothing is recommended.
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 - Crystalline
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 Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Bulk Density	ca. 1.200 kg/m^3
Solubilities	Soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	> 130 °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.
Conditions to Avoid	Temperature 130 degrees Celsius Heat, flames and sparks.
Incompatible Materials	Acids Bases Organic materials Powdered metals
Hazardous Decomposition Products	No decomposition if stored and applied as directed. Nitrogen oxides (NOx) and ammonia

Section 11 Toxicological Information

Acute Effects:

Swallowed	May be harmful if swallowed. Product= LD50 (Rat) = >2000mg/kg
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes severe irritation to eyes
Skin	Causes mild skin irritation.

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

potassium sulfate:
Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Section 12. Ecotoxicological Information

HSNO Classes: 9.3C = Harmful to terrestrial vertebrates.

Toxicity

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

potassium sulfate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 653 - 796 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 890 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus subspicatus): 2.900 mg/l
Exposure time: 48 h

Persistence and degradability	No data available
Bioaccumulation	Does not accumulate in organisms
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.
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

HSNO Classification: 5.1.1C, 6.1E (oral), 6.3B, 6.4A, 9.3C

HSNO Controls:
Trigger quantities HSNO 5.1.1C substance:

	Trigger Quantity
Approved Handler	1000kg
Location Certificate	a). where package to be kept closed at all times = 1000kg b). where substances manufactured or used = 100kg
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000kg
Emergency Response Plan	5000kg
Secondary Containment	5000kg
Restriction of Use	None

HSNO Controls:
Trigger quantities for oxidizing fertilisers on farms:

	Trigger Quantity
Approved Handler	1000kg
Location Certificate	a). where package to be kept closed at all times or where substance is used = 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

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

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

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

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