

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Basacote Plus 12M**
 Item Code: 000000001569322011
 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: 23 November 2016

Section 2. Hazards Identification

This substance is NOT hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

Section 3. Composition / Information on Ingredients

Chemical nature: Fertiliser
 NPK - fertilizer containing: Ammonium Nitrate, ammonium salts, phosphates, potassium sulphate, magnesium sulphate, salts of calcium, potassium and possibly magnesium and trace elements.

Ingredients	Wt%	CAS NUMBER.
Ammonium nitrate	>10-<45	6484-52-2
Disodium tetraborate pentahydrate	<0.2	12179-04-3

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).

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 Not suitable: Foam, Dry Chemical, Carbon dioxide (CO ₂) and Sand
Precautions for firefighters and special protective clothing	Self-contained breathing apparatus.
HAZCHEM CODE	None Allocated

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 away from direct sunlight.
- Keep away from heat.
- Protect from contamination.
- Protect from moisture.
- Wash hands before breaks and at the end of workday.

Precautions for Storage:

- Keep away from heat and sources of ignition.
- No smoking.
- Keep away from combustible material.
- Protect from contamination.
- When stored loose do not mix with other fertilizers.
- Protect from moisture.
- Do not store together with oxidizing and self-igniting products.
- Keep in a dry place.

Section 8 Exposure Controls / Personal Protection

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
disodium tetra-borate pentahydrate			3 mg/m ³	DE TRGS 900

Peak-limit: excursion factor (category)	8;(II)
Further information	Commission for dangerous substances, The threshold value is based on the element content of the corresponding metal., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

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

Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium nitrate	Workers	Inhalation	Specific effects	37,6 mg/m ³
Remarks:	Exposure time: 1 d			
	Workers	Skin contact	Specific effects	21,3 mg/kg
Remarks:	Exposure time: 1 d			
	Consumers	Ingestion	Specific effects	12,8 mg/kg
Remarks:	Exposure time: 1 d			
	Consumers	Ingestion	Specific effects	12,8 mg/kg
Remarks:	Exposure time: 1 d			
	Consumers	Inhalation	Specific effects	11,1 mg/m ³
Remarks:	Exposure time: 1 d			

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

Substance name	Environmental Compartment	Value
ammonium nitrate	Fresh water	0,45 mg/l
	Marine water	0,045 mg/l
	Ceiling Limit Value	4,5 mg/l

Engineering Controls

Ensure adequate ventilation is available

Personal Protection

Eyes	In case of dust formation wear safety glasses.
Hands and Skin	No special protective equipment required.
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 Explosive Limits	Not available

Vapour Pressure	Not available
Vapour Density	Not available
Bulk Density	ca. 1.150 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. The product is capable of self-sustaining progressive thermal decomposition.
Kinematic Viscosity	Not available
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions. Evolution of ammonia under influence of alkalis.
Conditions to Avoid	Keep away from heat and sources of ignition.
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 Products	No decomposition if stored and applied as directed. Nitrogen oxides (NO _x) and ammonia

Section 11 Toxicological Information

Acute Effects:

Swallowed	Ingestion may provoke the following symptoms: Methaemoglobinemia
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
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.

Acute toxicity

Product:

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

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

disodium tetraborate pentahydrate:

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

Acute inhalation toxicity : LC50 (Rat): > 2,0 mg/l
Method: OECD Test Guideline 403

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

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Toxicity

Components:

ammonium nitrate:

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

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

LC50 : 490 mg/l

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 1.700 mg/l
Exposure time: 10 d

disodium tetraborate pentahydrate:

Toxicity to fish : LC50 (dab): 74 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 242 mg/l
aquatic invertebrates Exposure time: 24 h

Toxicity to algae : EC10 (Scenedesmus subspicatus): 24 mg/l
Exposure time: 96 h

Persistence and degradability	No data available
Bioaccumulation	Bioaccumulation is unlikely.
Mobility in Soil	Groundwater contamination is unlikely.
Other adverse effects	No data available

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.

Precautions and methods to avoid: None known.

Section 14 Transport Information

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

Section 15 Regulatory Information

This substance is NOT hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

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.

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

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