

## SAFETY DATA SHEET

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

Product: **Basacote Plus 3M**  
 Item Code: 000000001567112804  
 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

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	Thermal decomposition can lead to release of irritating gases and vapours. Nitrogen oxides (NOx) 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.
<b>HAZCHEM CODE</b>	<b>None Allocated</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 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 <sup>3</sup>	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 <sup>3</sup>
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 <sup>3</sup>
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**

<b>Eyes</b>	In case of dust formation wear safety glasses.
<b>Hands and Skin</b>	No special protective equipment required.
<b>Respiratory</b>	Breathing apparatus only if aerosol or dust is formed. Respirator with a particle filter (EN 143) - P1 filter

**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. The product is capable of self-sustaining progressive thermal decomposition.
<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. Evolution of ammonia under influence of alkalis.
<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>	No decomposition if stored and applied as directed. Nitrogen oxides (NO <sub>x</sub> ) and ammonia

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Ingestion may provoke the following symptoms: Methaemoglobinemia
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Not applicable.
<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.

### 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

<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

**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 <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

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

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