

## SAFETY DATA SHEET

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

Product: Fertilis Speed  
 Product No:  
 Product Use: Fertilizer  
 Restrictions 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

New Zealand: **0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 20 September 2017

### Section 2. Hazards Identification

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

**Group Standard & EPA Approval Code: Fertilisers (subsidiary) – HSR002571**

#### Pictograms



Irritant

Signal Word: **WARNING**

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
6.1E (oral)	H303	May be harmful if swallowed.	Category 5
6.4A	H319	Causes serious eye irritation.	Category 2A
9.1D	H401	Toxic to aquatic life.	Category 4

#### Prevention Code      Prevention Statement

P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash hands thoroughly after handling.
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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
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.

**Storage Code      Storage Statement**

None allocated	
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**Disposal Code      Disposal Statement**

P501	Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations. Dispose of unwanted product as a hazardous material according to Local Regulations.
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**Section 3.      Composition / Information on Ingredients**

<b>Ingredients</b>	<b>Wt%</b>	<b>CAS NUMBER.</b>
Ammonium nitrate	10 - 45	6484-52-2
Disodium tetraborate pentahydrate	0.2	12179-04-3
Non hazardous	To bal	7733-02-0

**Section 4.      First Aid Measures**

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. 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	Immediately rinse the mouth with water and drink afterwards plenty of water. Consult the doctor in case of persistent trouble.
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: Ingestion may provoke the following symptoms:  
Methaemoglobinemia

**Indication of any immediate medical attention and special treatment needed**

Treatment Treat according to symptoms (decontamination, vital functions), treat with toluonium chloride to reverse methaemoglobinanaemia.

**Section 5.      Fire Fighting Measures**

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	Thermal decomposition products: Nitrogen oxides (NOx), ammonia
<b>Suitable</b>	Water

<b>Extinguishing media</b>	Do not use: Carbon dioxide (CO2), Foam, Sand, Dry chemical
<b>Precautions for firefighters and special protective clothing</b>	In the event of fire, wear 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>None allocated</b>

**Section 6. Accidental Release Measures**

Remove all sources of ignition. Wear appropriate PPE as detailed in Section 8.

Use mechanical handling equipment for cleanup. Dispose of according to Section 13.

Do not allow to enter into surface water or drains.

**Section 7. Handling and Storage**

**Handling**

- Keep out of reach of children.
- Read label before use.
- Avoid release to the environment.
- Keep away from direct sunlight.
- Protect from contamination.
- Protect against heat.
- Protect from moisture.
- Keep away from heat and sources of ignition.
- Keep away from combustible material.
- Wear protective clothing.

**Storage**

- To maintain product quality, do not store in heat or direct sunlight.
- Keep away from sources of ignition - No smoking.
- Keep away from combustible material.
- Protect from contamination.
- When stored loose do not mix with other fertilizers.
- Protect against humidity (product is hygroscopic and tends to cake or disintegrate).
- Store away from incompatible materials listed in Section 10.

**Section 8 Exposure Controls / Personal Protection**

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

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

**DNEL**

Ammonium Nitrate : End Use: Workers  
 Exposure routes: Inhalation  
 Potential health effects: Specific effects

Exposure time: 1 DAY  
Value: 37,6 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Specific effects  
Exposure time: 1 DAY  
Value: 21,3 mg/kg

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Specific effects  
Exposure time: 1 DAY  
Value: 12,8 mg/kg

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Specific effects  
Exposure time: 1 DAY  
Value: 12,8 mg/kg

PNEC

Ammonium Nitrate

: Fresh water  
Value: 0,45 mg/l

Marine water Value:  
0,045 mg/l

Ceiling Limit Value  
Value: 4,5 mg/l

### Engineering Controls

Ensure adequate ventilation is available.

<b>Eyes</b>	In case of dust formation: Tightly fitting safety goggles.
<b>Hands and Skin</b>	No special protective equipment required but it is always good practice to wear protective gloves.
<b>Respiratory</b>	Breathing apparatus only if aerosol or dust is formed. Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).
<b>General</b>	At the end of the shift the skin should be cleaned and skin care agents applied.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Solid
<b>Colour</b>	Blue
<b>Odour</b>	odourless
<b>Odour Threshold</b>	Not available
<b>pH @ 20°C</b>	ca. 5, Concentration: 100,00 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>Bulk Density</b>	ca. 1.150 kg/m <sup>3</sup>
<b>Solubilities</b>	Soluble
<b>Partition Coefficient:</b>	Not available

Product Name: Fertilis Speed  
Date of SDS: 20 September 2017

Prepared by: Technical Compliance Consultants (NZ) Ltd  
Tel: 64 9 475 5240

<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	ca. 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>Hazardous Reactions</b>	Evolution of ammonia under influence of alkalies.
<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), ammonia

### Section 11 Toxicological Information

#### Acute Effects:

<b>Swallowed</b>	May be harmful if swallowed. LD50: > 2.000 mg/kg, rat
<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: > 2.950 mg/kg, rat, OECD Test Guideline 401
Acute inhalation toxicity	: > 88,8 mg/l, No information available., Not relevant because of low vapour pressure., Not relevant because of low dust formation.
Acute dermal toxicity	: LD50: > 5.000 mg/kg, rat, OECD Test Guideline 402
Skin corrosion/irritation	: rabbit, Result: non-irritant, OECD Test Guideline 404
Serious eye damage/eye irritation	: rabbit, Result: Irritant, OECD Test Guideline 405
Respiratory or skin Sensitization	: Result: Does not cause skin sensitization.

Result: negative, OECD Test Guideline 471

rat, Oral, Exposure time: 28 d, NOAEL: > 1.500 mg/kg  
 rat, Oral, Exposure time: 52 w, NOAEL: = 256 mg/kg, OECD Test Guideline 453  
 rat, by inhalation, Exposure time: 2 w, NOAEL: >= 185 mg/kg, Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

**disodium tetraborate pentahydrate :**

Serious eye damage/eye Irritation : rabbit, Result: Moderate eye irritation, Classification: Irritant

**Section 12. Ecotoxicological Information**

HSNO Classifications: 9.1D = Toxic to aquatic life.

<b>Persistence and degradability</b>	The methods for determining the biological degradability are not applicable to inorganic substances.
<b>Bioaccumulation</b>	Bioaccumulation is unlikely.
<b>Mobility in Soil</b>	Groundwater contamination is unlikely.
<b>Other adverse effects</b>	No data available.

**Components:**

**Toxicity**

Component	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to algae
Ammonium Nitrate	LC50: > 100 mg/l, 96 h, various species	EC50: 490 mg/l LC50: 490 mg/l	EC50: 1.700 mg/l, other aquatic plant
disodium tetraborate pentahydrate	LC50: 74 mg/l, 96 h, dab	EC50: 242 mg/l, 24 h, Daphnia magna (Water flea)	EC10: 24 mg/l, 96 h, green algae

**Other**

Component	Biodegradability	Bioaccumulation	Mobility in soil
Ammonium Nitrate	The methods for determining the biological degradability are not applicable to inorganic substances.	Bioaccumulation is unlikely.	no data available

Do not allow to enter waterways.

**Section 13. Disposal Considerations**

**Disposal Method:**

Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations. Dispose of unwanted product as a hazardous material according to Local Regulations.

**Precautions and methods to avoid:**

Do not allow to enter into surface water or drains where possible.

**Section 14 Transport Information**

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

**Section 15 Regulatory Information**

EPA Approval Code: Fertilisers (subsidiary) – HSR002571

HSNO Classification: 6.1E(oral), 6.4A, 9.1D

HSNO Controls:

Trigger quantities for this substance:

	<b>Trigger Quantity</b>
Approved Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	10000kg (9.1D)
Emergency Response Plan trigger Quantities	10000kg (9.1D)
Restrictions of use	None

**Section 16 Other Information****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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Please contact the New Zealand distributor, Horticulture Ltd, if further information is required.

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