

### SAFETY DATA SHEET

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

Product: NovaTec Classic 12-8-16

Product Use: Fertiliser

Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticentre Ltd

Address: 10 Firth Street

Drury, 2113

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

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 24 March 2022

### Section 2. Hazards Identification

Classified as NOT hazardous according to Regulation (EC) No. 1272/2008 which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2020.

### Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
ammonium nitrate	<u>&gt;</u> 10- <45	6484-52-2
Borates, tetra sodium salts, pentahydrate	<u>&lt;</u> 0.2	12179-04-3

### 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 Clean mouth with water and drink afterwards plenty of water. Call a

POISON CENTER or doctor/physician if you feel unwell.

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

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breathing becomes difficult. In case of lung irritation, first treatment with

dexametason aerosol (spray).

### Most important symptoms and effects, both acute and delayed

Symptoms: Ingestion may provoke the following symptoms: Methaemoglobinemia

Risk: Later control for pneumonia and lung oedema

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

Section 5. Fire Fighting Measures	
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Hazard Type	Non-combustible substance with oxidizing ingredient
Hazards from combustion	At temperatures above 130 °C, dangerous decomposition gases can be emitted: Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide,
products	ammonia
Suitable	Water
Extinguishing	Not suitable: Foam, Dry chemical, Carbon dioxide (CO2) and Sand
media	
Precautions for	Self-contained breathing apparatus. Fire residues and contaminated fire
firefighters and	extinguishing water must be disposed of in accordance with local
special protective	regulations.
clothing	
HAZCHEM CODE	None Allocated

### Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. Avoid dust formation. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

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:**

- Always read the label and product information before use.
- The product is not flammable.
- Keep away from heat and sources of ignition.
- Keep away from combustible materials.
- Protect from contamination.
- Keep away from direct sunlight.
- Protect against heat.
- Protect from moisture.
- At the end of the shift the skin should be cleaned and skin care agents applied.

### **Precautions for Storage:**

- Do not store together with oxidizing and self-igniting products.
- Keep away from direct sunlight.
- Protect from contamination.
- Protect from moisture.
- When stored loose do not mix with other fertilizers.
- Keep in a dry place.
- Protect against humidity (product is hygroscopic and tends to cake or disintegrate).

### Section 8 Exposure Controls / Personal Protection

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

TWA STEL

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Substance ppm mg/m³ ppm mg/m³

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 12<sup>TH</sup> EDITION.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Ammonia Nitrate	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	Long-term systemic effects	2.56 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	8.9 mg/m <sup>3</sup>
	Comsumers	Skin contact, inhalation	Long-term systemic effects	2.56 mg/kg bw/day
Borates, tetra sodium salts, pentahydrate	Workers	Inhalation	Long-term exposure	5.7 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term exposure	3.4 mg/m <sup>3</sup>
	Workers	Skin Contact	Long-term exposure	316.4 mg/kg bw/day
	Consumers	Skin Contact	Long-term exposure	159,5 mg/kg bw/day
	Consumers	Ingestion	Long-term exposure Short-term exposure	8.79 mg/kg bw/day

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

Substance Name	<b>Environmental Compartment</b>	Value
Ammonia Nitrate	Sewage treatment plant	18 mg/l
Borates, tetra sodium salts, pentahydrate	Fresh water	2.9 mg/l
	Marine water	2.9 mg/l
	Soil	5.7 mg/kg
	Intermittent use/release	13.7 mg/l
	Sewage treatment plant	10 mg/l

### **Engineering Controls**

Ensure adequate ventilation is available

### **Personal Protection Equipment**

Eyes	Wear goggles with side shields. Avoid wearing contact lenses.
Hands and Skin	Wear gloves.
Respiratory	Breathing apparatus only if aerosol or dust is formed. Respirator with a

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## particle filter (EN 143) - P1 filter

#### **Section 9 Physical and Chemical Properties**

Appearance	Various colours - Granular
Odour	Very Faint
Odour Threshold	Not available
pH	ca. 5 – 5.5Concentration: 100 g/l (20 °C)
<b>Boiling Point</b>	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	The product is not flammable.
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Bulk Density	ca. 1.150 kg/m³
Solubilities	Soluble
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Decomposition	> 130 °C
Temperature	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.	
Hazardous reactions	Evolution of ammonia under influence of alkalis.	
Conditions to Avoid	Protect from frost, heat and sunlight. Avoid moisture.	
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.	
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Hazardous Decomposition	Nitrogen oxides (NOx) and ammonia. Evolution of ammonia	
Products	under influence of alkalies.	

#### Section 11 **Toxicological Information**

### **Acute Effects:**

Swallowed	Not applicable. Product= LD50 (Rat) = >2000mg/kg
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

### **Chronic Effects:**

Carcinogenicity	Not applicable.
Reproductive	Not applicable.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

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### 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

Borates, tetra sodium salts, pentahydrate:

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

Method: No information available

Acute inhalation toxicity : LC50 (Rat): > 2,0 mg/l

Method: OECD Test Guideline 403

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

Method: No information available

### Section 12. Ecotoxicological Information

**Product:** 

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 422 mg/l

Exposure time: 48 h
Test Type: static test

Toxicity to daphnia and other: EC50 (Daphnia (water flea)): 555 mg/l

aquatic invertebrates

Exposure time: 48 h Test Type: static test

Toxicity to algae : No observed effect concentration (Desmodesmus subspicatus

(green algae)): 83 mg/l Exposure time: 168 h Test Type: other

Method: No data available

Toxicity to bacteria : EC20 (activated sludge): ca. > 100 mg/l

Exposure time: 0,5 h
Test Type: other

Method: No data available

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

Borates, tetra sodium salts pentahydrate:

Toxicity to fish : LC50 (Fish): 74 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 242 mg/l

Exposure time: 24 h

Toxicity to algae : EC10 (Scenedesmus subspicatus): 24 mg/l

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Exposure time: 96 h

Persistence and degradability	The product works in the soil as fertilizer and is
	diminished in a few weeks. The methods for determining the biological degradability are not applicable to inorganic substances.
Bioaccumulation	Bioaccumulation is unlikely.
	Partition coefficient: n : log Pow: -3,1
	octanol/water
Mobility in Soil	Groundwater contamination is unlikely.
Other adverse effects	
	Disposal via sewage water treatment plants may cause im-
	pairment of the nitrification activity of the activated sludge.
	There is a high probability that the product is acute not harmful
	to aquatic organisms.
	Additional ecological information
	The product has not been tested. The information is derived
	from the properties of the individual components.
	At higher pH values, which can be found in natural surface waters,
	an increase of toxic effects on aquatic organsims may be expected.

### **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.

Disposal 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

Classified as NOT hazardous according to Regulation (EC) No. 1272/2008 which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2020.

Section 16	Other Information	

Glossary	
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Cat Category

EC50Median effective concentration.EELEnvironmental Exposure Limit.EPAEnvironmental 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).

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- Transport of Dangerous goods on land NZS 5433:2012 4.
- HSW (Hazardous Substances) Regulations 2017 5.

### Disclaimer

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

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