

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: NovaTec Solub 16+10+17

Item Code:

Product Use: Fertiliser

Refer to Section 15 Restriction of Use:

New Zealand Supplier: Horticentre 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: 23 August 2022 v2

Section 2. **Hazards Identification**

NOT classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP] which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Safety Data Sheets) Notice 2017.

Section 3. **Composition / Information on Ingredients**

Ingredients	Wt%	CAS NUMBER.
ammonium nitrate	<u>></u> 10- <15	6484-52-2
Potassium Nitrate	<u>></u> 10- <25	7757-79-1
Non-hazardous ingredients	To Bal	

First Aid Measures Section 4.

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 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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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.

Indication of any immediate medical attention and special treatment needed

Treat ment Treat symptomatically. There is no specific antidote available.

Section 5. Fire Fighting Measures

Hazard Type	Nonflammable.
Hazards from combustion products	At temperatures above 130 °C, dangerous decomposition gases can be emitted: Nitrogen monoxide, nitrogen dioxide, dinitrogen oxide, ammonia
Suitable Extinguishing media	Water Not suitable: Foam, Dry chemical, Carbon dioxide (CO ₂) and Sand
Precautions for firefighters and special protective clothing	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.
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:

- Do not eat, drink or smoke when using this product.
- Keep away from direct sunlight.
- Keep away from heat.
- Protect from contamination.
- Protect from moisture.
- Keep away from heat and sources of ignition.

Precautions for Storage:

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

Section 8 Exposure Controls / Personal Protection

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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL 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 APRIL 2022 13TH EDITION.

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

Derived No Effect Lo	evel (DNEL) accord	ling to Regulation	(EC) No. 1907/2006:	
Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium nitrate	Workers	Inhalation	Long-term systemic effects	36 mg/m3
	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/m3
	Consumers	Skin contact, Ingestion	Long-term systemic effects	2,56 mg/kg bw/day
Potassium Nitrate	Workers	Inhalation	Systemic effects	36,7 mg/m3
	Workers	Skin contact	Systemic effects	20.8 mg/kg
Remarks	Exposure time:	1 d		-
	Consumers	Ingestion	Systemic effects	12,5 mg/kg
Remarks	Exposure time:	1 d	<u>I</u>	
	Consumers	Skin contact	Systemic effects	12.5 mg/kg
Remarks	Exposure time:	1 d		
	Consumers	Inhalation	Systemic effects	19.9 mg/m ³
		-		

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

Substance name	Environmental Compartment	Value
ammonium nitrate	Sewage treatment plant	18 mg/l
Potassium Nitrate	Fresh water	0.45 mg/l
	Marine water	0.045 mg/l
	Ceiling Limit Value	4.5 mg/l
	Sewage treatment plant	18mg/l

Engineering Controls

Ensure adequate ventilation is available

Personal Protection

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Eyes	Wear goggles with side shields. Avoid wearing contact lenses.
Hands and	Wear gloves.
Skin	
Respiratory	Particle filtering disposable mask DIN EN 149 with filter FFP2.□
General	At the end of the shift the skin should be cleaned and skin care agents
	applied.

Section 9 Physical and Chemical Properties

Appearance	Various colours - Granular
Odour	Very faint
Odour Threshold	Not available
pH	ca. 5 – 5.5, Concentration: 100,00 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	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.
Hazardous Decomposition	Nitrogen monoxide, nitrogen dioxide, dinitrogen oxide,
Products	ammonia

Section 11 **Toxicological Information**

Acute Effects:

Swallowed	Not applicable. 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	

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Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

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

potassium nitrate:

Acute oral toxicity : LD50: > 2.000 mg/kg, rat

Acute inhalation toxicity : LC50: > 0,527 mg/l, rat

Acute dermal toxicity : LD50: > 5.000 mg/kg, rat

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Toxicity

Product:

Toxicity to fish : LC50: 422 mg/l, 48 h, Cyprinus carpio (Carp), static test

Toxicity to daphnia and other: EC50: 555 mg/l, 48 h, Daphnia, static test

aquatic invertebrates.

Toxicity to algae : No observed effect concentration: 83 mg/l, 168 h,

Desmodesmus subspicatus (green algae), other, no data

available

Toxicity to bacteria : EC20: ca. > 100 mg/l, 0,5 h, activated sludge, other, 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

potassium nitrate:

Toxicity to fish : LC50: > 100 mg/l, 96 h, Fish

Toxicity to daphnia and other

Aquatić invertebrates : LC50: 490 mg/l, 48h, Daphnia magna (water flea)

Toxicity to algae : LC50: >= 1.700 mg/l, 10 d

Persistence and degradability The product works in the soil as fertilizer and is diminished

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	in a few weeks.
Bioaccumulation	Bioaccumulation is unlikely.
Mobility in Soil	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.

Disposal methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020

Section 15 Regulatory Information

NOT classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP] which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Safety Data Sheets) Notice 2017.

Section 16	Other Information
Glossary	
Cat	Category
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

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2022 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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