

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Blaukorn Classic 12+8+16

Item Code: 000000002566104899

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)

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Section 2. Hazards Identification

Not classified as 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>></u> 10- <45	6484-52-2
Borates, tetra sodium salts, pen- tahydrate	<u><</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: Ingestion may provoke the following symptoms:

Methaemoglobinemia.

Risks: Later control for pneumonia and lung oedema.

Notes for Doctor: Treat symptomatically.

There is no specific antidote available.

Section 5. Fire Fighting Measures

Hazard Type	Non-combustible substance with oxidizing ingredient		
Hazards from	Thermal decomposition can lead to release of irritating gases and		
combustion	vapours.		
products	Nitrogen oxides (NOx)		
	ammonia		
Suitable	Water		
Extinguishing	Not suitable: Foam, Dry chemical, Carbon dioxide (CO ₂) 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. 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:

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

Precautions for Storage:

- Do not store together with oxidizing and self-igniting products.
- Keep away from heat.
- 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 from moisture.
- Keep away from strong acids and bases.

Section 8 Exposure Controls / Personal Protection

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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Borates, tetra so-dium salts, pentahydrate

Workplace Exposure Standard – Tine 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.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
		•		
ammonium	Workers	Inhalation	Long Term systemic	36 mg/m ³
nitrate			effects	
	Workers	Skin contact	Long Term systemic	5,12 mg/kg
			effects	bw/day
	Consumers	Ingestion	Long Term systemic	2,56 mg/kg
			effects	bw/day
	Consumers	Inhalation	Long Term systemic	8,9 mg/m3
			effects	. 5.
	Consumers	Skin Contact,	Long Term systemic	2,56 mg/kg
		ingestion	effects	bw/day
Borates, tetra	Workers	Inhalation	Long term exposure	6,7 mg/m3
sodium salts,				
pentahydrate				
	Consumers	Inhalation	Long term exposure	3,4 mg/m3
	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	0,79 mg/kg
			Short term exposure	bw/day

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

Substance Name	Environmental	Value
	Compartment	
ammonium 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
	Itermittent use/realease	13,7 mg/l
	Sewage Treatment plant	10 mg/l

Engineering Controls

Ensure adequate ventilation is available

Personal Protection

Eyes	Wear goggles with side shields. Avoid wearing contact lenses.
Hands and	Wear gloves.
Skin	
Respiratory	Respiratory protection only if aerosol or dust is formed. Respirator with a particle filter (EN 143)
	P1 filter

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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	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.
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	Nitrogen oxides (NOx) and ammonia.
Products	

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes severe irritation to eyes
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive	Suspected of damaging fertility or the unborn child.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Components:

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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

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

Not hazardous to the environment.

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

disodium tetraborate 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

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

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

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

Section 15 **Regulatory Information**

Not classified as 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 To	nformation
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Cat Category

Median effective concentration. EC50 Environmental Exposure Limit. EEL **Environmental Protection Authority EPA**

Hazardous Substances and New Organisms. **HSNO**

HSW Health and Safety at Work.

Lethal concentration that will kill 50% of the test organisms LC50

inhaling or ingesting it.

Lethal dose to kill 50% of test animals/organisms. LD50

LEL Lower explosive level.

American Occupational Safety and Health Administration. OSHA

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

Upper Explosive Level UEL WES Workplace Exposure Limit

References:

- EPA Hazardous Substances (Safety Data Sheets) Notice 2017 1.
- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2020 edition.
- Assigning a hazardous substance to a HSNO Approval (Aug 2013). 3.
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-todate information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

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

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