

## SAFETY DATA SHEET

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

Product: **Blaukorn Premium 15-3-20**  
 Product Use: Fertiliser  
 Restriction 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

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	≥10- <45	6484-52-2
Borates, tetra sodium salts, pentahydrate	≤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

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**

<b>Hazard Type</b>	Non-combustible substance with oxidizing ingredient
<b>Hazards from combustion products</b>	At temperatures above 130 °C, dangerous decomposition gases can be emitted: Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, 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. 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**

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:**

- Keep away from combustible materials.
- Keep away from direct sunlight, heat and sources of ignition.
- Protect from contamination.
- Protect from moisture.
- When stored loose do not mix with other fertilizers.
- Keep in a dry place.

**Section 8 Exposure Controls / Personal Protection**

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

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

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>
	Consumers	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	Environmental Compartment	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**

<b>Eyes</b>	In case of dust formation wear safety glasses.
<b>Hands and Skin</b>	Wear gloves.
<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>	Solid
<b>Colour</b>	Various
<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.
<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>Hazardous reactions</b>	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>	Nitrogen oxides (NOx) and ammonia.

**Section 11 Toxicological Information****Acute Effects:**

<b>Swallowed</b>	Not applicable.
<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.

**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 aquatic invertebrates : EC50 (Daphnia (water flea)): 555 mg/l  
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

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	Bioaccumulation is unlikely. Partition coefficient: n : log Pow: -3,1 octanol/water
<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.

**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

Cat	Category
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

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

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