

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Hakaphos Azul 20-5-5

Item Code:

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: 26 November 2018

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: Fertilisers (subsidiary) - HSR002571

Pictograms



Irritant

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
9.1D	H402	Harmful to aquatic life.	Aquatic Acute 3

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 as detailed in Section 8.

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.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Potassium Nitrate	< 15	7757-79-1
Ammonium Nitrate	10 - 45	6484-52-2

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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. Wash contaminated clothing before

reuse. If skin irritation or rash occurs: get medical advice/attention.

If Swallowed Rinse mouth. Never give anything to the mouth of an unconscious person.

If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. 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 be harmful if swallowed. Ingestion may provoke the following

symptoms: Methaemoglobinemia. Risks - Later control for pneumonia and

lung oedema.

Inhalation: In case of lung irritation, first treatment with dexametason aerosol

(spray).

Skin: Causes mild skin irritation. **Eves:** Causes serious eye irritation.

Treatment: Treat symptomatically. There is no specific antidote available.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable.
Hazards from	Thermal decomposition can lead to release of irritating gases and
products	vapours.
	Nitrogen oxides (NOx)
	ammonia
Suitable	Water
Extinguishing	<u>Unsuitable:</u>
media	Foam
	Dry chemical
	Carbon dioxide (CO2)
	Sand
Precautions for	In the event of fire, wear self-contained breathing apparatus. Fire
firefighters and	residues and contaminated fire extinguishing water must be disposed of
special protective	in accordance with local regulations.
clothing	
HAZCHEM CODE	1Z

Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel.

Sweep up and shovel into suitable containers for disposal.

Do not empty into drains. Retain and dispose of contaminated wash water.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- · Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- · Keep away from direct sunlight.
- Keep away from heat.
- · Protect from contamination.
- Protect from moisture.

Precautions for Storage:

- Keep out of reach of children.
- Keep away from strong acids.
- Keep away from strong bases.
- Keep away from combustible materials.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

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.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
potassium nitrate	Workers	Inhalation	Systemic effects	36,7 mg/m3
	Workers	Skin contact	Systemic effects	20,8 mg/kg
Remarks:	Exposure time:	l d		
	Consumers	Ingestion	Systemic effects	12,5 mg/kg
Remarks:	Exposure time:	l d		
	Consumers	Skin contact	Systemic effects	12,5 mg/kg
Remarks:	Exposure time:	l d		
	Consumers	Inhalation	Systemic effects	10,9 mg/m3
ammonium nitrate	Workers	Inhalation	Specific effects	36 mg/m3
Remarks:	Exposure time:	l d		
	Workers	Skin contact	Specific effects	5,12 mg/kg
Remarks:	Remarks: Exposure time: 1 d			
	Consumers	Ingestion	Specific effects	2,56 mg/kg bw/day
Remarks:	Exposure time:	l d		
	Consumers	Inhalation	Specific effects	8,9 mg/m3
Remarks:	Exposure time:	l d		

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

Substance name	Environmental Compartment	Value
potassium nitrate	Fresh water	0,45 mg/l
	Marine water	0,045 mg/l
	Ceiling Limit Value	4,5 mg/l
	Sewage treatment plant	18 mg/l
ammonium nitrate	Fresh water	0,45 mg/l
	Marine water	0,045 mg/l
	Ceiling Limit Value	4,5 mg/l

Engineering Controls

Ensure adequate ventilation is available.

Personal Protection Equipment







Eyes	Tightly fitting safety goggles.
Hands and Skin	Wear chemical resistant gloves.
Respiratory	Breathing apparatus only if aerosol or dust is formed. Respirator with a particle filter (EN 143) P1 filter
General	Do not empty into drains. Retain and dispose of contaminated wash water.

Product Name: Hakaphos Azul 20-5-5 Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 26 November 2018 Tel: 64 9 475 5240 www.techcomp.co.nz

Section 9 Physical and Chemical Properties

Appearance	Solid
Colour	Various
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	Not available
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Bulk Density	Not available
Specific Gravity	Not available
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 Size	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions. Decomposes on heating.
Hazardous Reactions	Evolution of ammonia under influence of alkalies.
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 substanc- es, nitrites, metallic salts, metallic powder, herbicide, chlorin- ated hydrocarbons, organic compounds.
Hazardous Decomposition	Nitrogen oxides (NOx)
Products	ammonia

Section 11 Toxicological Information

Acute Effects:

Swallowed	May be harmful if swallowed.
	Mixture Rules Calculation= LD50 = 3547 mg/kg
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes severe irritation to eyes
Skin	Causes mild skin irritation.

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.

Information on toxicological effects Components:

potassium nitrate:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,527 mg/l

Acute dermal toxicity : LD50 (Rat): >5.000 mg/kg

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

Section 12. Ecotoxicological Information

HSNO Classes: 9.1D = Toxic to aquatic life.

Components:

Ammonium Nitrate:

Toxicity to fish: LC50 (fish):>100mg/l (96 hrs)

Toxicity to daphnia and other

Aquatic invertebrates: EC50 (Daphnia(water flea)): 490 mg/l (48h)
Toxicity to algae: EC50 (Selenastrum capricornutum (green algae)):

1.700 mg/l (10 days)

Potassium Nitrate:

Toxicity to fish: LC50 (fish):>100mg/l (96 hrs)

Toxicity to daphnia and other

Aquatic invertebrates: EC50 (Daphnia(water flea)): 490 mg/l (48h)
Toxicity to algae: EC50 (Selenastrum capricornutum (green algae)):

1.700 mg/l (10 days)

Persistence and degradability	No data available
Bioaccumulation Bioaccumulation is unlikely.	
Mobility in Soil	Groundwater contamination is unlikely.
Other adverse effects No data available.	
Precautions	Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method: Triple rinse and dispose according to Local Regulations.

Precautions: None known.

Disposal methods to avoid: Do not allow to enter waterways

Section 14 Transport Information

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

Product Name: Hakaphos Azul 20-5-5

Date of SDS: 26 November 2018

Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

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Section 15 Regulatory Information

EPA Approval Code: Fertilisers (Subsidiary Hazard) - HSR002571

HSNO Classification: 6.1E (oral), 6.3B. 6.4A, 9.1D

HSWA & EPA Controls	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	10 000kg (9.1D)
Emergency Response Plan	10 000kg (9.1D)
Secondary Containment	10 000kg (9.1D)
Restriction of Use	None

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

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