

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Hakaphos SP3-15-36+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: 24 May 2023 v2

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Fertiliser (subsidiary) - HSR002571

Pictograms



Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Eye irritation Cat. 2	H319	Causes serious eye irritation.

Prevention Code	Prevention Statement	
P103	Read carefully and follow all instructions.	
P264	Wash hands thoroughly after handling.	
P280	Wear protective clothing as detailed in Section 8.	

Response Code	Response Statement
P362	Take off contaminated clothing and wash before re-use.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.

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P337 + P313	If eye irritation persists: Get medical advice/attention.
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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	<u>></u> 10 - <u><</u> 40	7757-79-1
Potassium hydrogensulphate	<u>></u> 0.5 - <u><</u> 5	7646-93-7
Ingredients determined to be Non-	To bal	
Hazardous		

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: call

doctor/physician.

If on Skin Take off contaminated clothing and wash before re-use. 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. 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. Immediately call a

POISON CENTER or doctor/physician.

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.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Not applicable. **Inhalation:** Not applicable.

Skin: Causes skin irritation.

Eyes: Causes severe eye irritation.

Treatment: Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from	Can decompose at above 130 °C. Thermal decomposition products:
combustion	Nitrogen monoxide, nitrogen dioxide, dinitrogen oxide, ammonia,
products	chloride, hydrogen chloride.
Suitable	Water, water spray or dry chemical
Extinguishing	Do not use carbon dioxide (CO2), foam and sand
media	
Precautions for	In the event of fire, wear self-contained breathing apparatus. Fire
firefighters and	residues and contaminated fire extinguishing water must
special protective	be disposed of in accordance with local regulations.
clothing	

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HAZCHEM CODE None allocated

Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Remove all sources of ignition.

Do not empty into drains.

Retain and dispose of contaminated wash water.

Use mechanical handling equipment for clean-up. Dispose of according to Local Regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- · Wash hands thoroughly after handling.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Keep out of reach of children.
- Store away from incompatible materials described in Section 10.
- To maintain product quality, do not store in heat or direct sun areas and containers light.
- Keep away from sources of ignition No smoking.
- · Keep away from combustible material.
- Protect from contamination.
- Protect from moisture.

Section 8 Exposure Controls / Personal Protection

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:

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: 1 d			
	Consumers	Ingestion	Systemic effects	12,5 mg/kg
Remarks:	Exposure time: 1 d			
	Consumers	Skin contact	Systemic effects	12,5 mg/kg
Remarks:	Exposure time: 1 d			
	Consumers	Inhalation	Systemic effects	10,9 mg/m3

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

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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

Engineering Controls

Ensure adequate ventilation is available.

Personal Protection Equipment







Eyes	In case of dust formation: Tightly fitting safety goggles.
Hands and	Gloves. Wearing of closed work clothing is recommended.
Skin	
Respiratory	Breathing apparatus only if aerosol or dust is formed.
General	Do not empty into drains.
	Retain and dispose of contaminated wash water.

Section 9 Physical and Chemical Properties

Appearance	Crystalline
Colour	Off White
Odour	Odourless
Odour Threshold	Not available
pH	2.9, 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. 1.310 kg/m ³
Solubilities	Soluble
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Decomposition	ca. 130 °C
Temperature	To avoid thermal decomposition, do not overheat.
Kinematic Viscosity	Not available
Particle Size	D50 = 230 µm
Distribution	D50 Tolerance range = 184 μm - 276 μm
	Measurement technique: Sieve analysis

Section 10. Stability and Reactivity

Stability of Substance	This material is thermally stable when stored and used as directed.		
Hazardous Reactions	No known hazardous reactions.		
Conditions to Avoid	Temperature 130 degrees Celsius. Heat, flames and sparks.		
Incompatible Materials	Acids		
-	Bases		

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	Organic materials Powdered metals	
Hazardous Decomposition	n Nitrogen oxides (NOx)	
Products	Ammonia	

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.	
Dermal	Not applicable.	
Inhalation	Not applicable.	
Eye	Causes severe eye irritation.	
Skin	Causes 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.	

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

potassium hydrogensulphate:

Acute oral toxicity : LD50 Oral (Rat): 2.340 mg/kg

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	Not expected to adsorb on soil.
Other adverse effects	No data available.

Components:

potassium nitrate:

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

Exposure time: 96 h

Toxicity to daphnia and other: EC50 (Daphnia magna (Water flea)): 490 mg/l

aquatic invertebrates Exposure time: 48 h

Toxicity to algae : LC50 : >= 1.700 mg/l

Exposure time: 10 d

potassium hydrogensulphate:

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Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 3.500 mg/l

Persistence and degradability

Components:

potassium nitrate:

Biodegradability : Remarks: The methods for determining the biological

degradability are not applicable to inorganic substances.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Does not accumulate in organisms.

Components:

potassium nitrate:

Bioaccumulation : Remarks: Does not bioaccumulate.

Mobility in soil

Product:

Distribution among environ mental compartments

: Remarks: Slightly mobile in soils

Components:

potassium nitrate:

Mobility : Remarks: No data available

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Triple rinse and dispose according to Local Regulations.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

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

Section 15 Regulatory Information

EPA Approval Code: Fertiliser (subsidiary) - HSR002571

HSWA & EPA Controls	Trigger Quantity	
Certified Handler	Not required	
Location Certificate	Not required	
Tracking Trigger Quantities	Not required	
Signage Trigger Quantities	Not required	
Emergency Response Plan	Not required	
Secondary Containment	Not required	
Restriction of Use	None	

Section 16 Other Information

Glossary

Cat Category

EC₅₀ Median effective concentration.

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EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

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

inhaling or ingesting it.

LD₅₀ 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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Please contact the New Zealand distributor, if further information is required.

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