


## NITROPHOSKA SELECT

## Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Nitrophoska Select
Product Code:	4670000
Recommended Use:	Fertiliser
Restrictions of Use:	Refer to Section 15
Company Identification:	Ravensdown Limited
Address:	292 Main South Road, Hornby, Christchurch 8042 PO Box 1049, Christchurch 8011
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - tell operator what service is needed: Fire, Ambulance or Police
Date of SDS Preparation	17 March 2025 v2

## Section 2: HAZARD IDENTIFICATION

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

EPA Approval No:	Fertilisers (subsidiary) – HSR002571
Pictograms:	
Signal Word:	Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment chronic Cat. 4	H413	May cause long lasting harmful effects to aquatic life.

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

Storage Code	Storage Statement
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None allocated	
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Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Ammonium Nitrate	6484-52-2	10-70%
Ammonium chloride	12125-02-9	1-25%

### Section 4: FIRST AID MEASURES

Routes of Exposure:	
<b>If in eyes:</b>	Flush with plenty of water for several minutes, holding eyelids open if necessary. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
<b>If on skin:</b>	Wash skin with plenty of water. If skin irritation occurs: Get medical advice/ attention.
<b>If ingested:</b>	Never give anything by mouth to an unconscious person. Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>If inhaled:</b>	Remove patient to fresh air. Keep at rest in comfortable position for breathing. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance if needed.
Most important symptoms and effects, both acute and delayed	
<b>Symptoms:</b>	
<b>Eyes:</b>	Causes serious eye irritation.
<b>Skin:</b>	Not applicable.
<b>Ingested:</b>	Not applicable.
<b>Inhaled:</b>	Not applicable.
<b>Chronic:</b>	Not applicable.
<b>Notes to Doctor:</b>	Treat symptomatically.

### Section 5: FIRE FIGHTING MEASURES

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	Ammonia. Chlorine. Hydrogen chloride. Nitrogen oxides. Carbon monoxide. Carbon dioxide
<b>Suitable Extinguishing media</b>	Water spray. Do not use: Carbon dioxide. extinguishing powder. Foam.
<b>Precautions for firefighters and special protective clothing</b>	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
<b>HAZCHEM CODE</b>	<b>None allocated</b>

### Section 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures:</b>
Wear approved protective clothing as detailed in Section 8. Evacuate all non-essential personnel from affected area. Ensure adequate ventilation.
<b>Environmental precautions:</b>
Avoid release to the environment. Do not allow into drains or water courses.
<b>Methods and material for containment and cleaning up:</b>
Mechanically recover the product. Dispose according to Section 13.

### Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Read label before use. Wash hands thoroughly after handling. Avoid release to the environment. Wear protective clothing as detailed in Section 8. Do not eat, drink or smoke when using this product. Avoid dust formation. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Keep away from any flames or sparking source.
<b>Storage:</b>	Keep out of reach of children. Store in a well-ventilated place. Keep cool. Keep away from food, drink and animal feeding stuffs. Do not store with: Organic materials. Protect from moisture. Store away from heat.

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ammonium chloride fume [12125-02-9]	-	10	-	20

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 FEB 2025 15<sup>TH</sup> EDITION.

ammonium nitrate (6484-52-2)	
<b>DNEL/DMEL (workers)</b>	
Long-term - systemic effects, dermal	5.12 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	36 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	2.56 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8.9 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	2.56 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0.45 mg/l
PNEC aqua (marine water)	0.045 mg/l
PNEC aqua (intermittent, freshwater)	4.5 mg/l
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	18 mg/l

ammonium chloride (12125-02-9)	
<b>DNEL/DMEL (workers)</b>	
Acute - systemic effects, dermal	190 mg/kg bodyweight/day
Acute - systemic effects, inhalation	33.5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	128.9 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	43.97 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, dermal	114 mg/kg bodyweight
Long-term - systemic effects, oral	55.2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	9.4 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	55.2 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0.25 mg/l
PNEC aqua (marine water)	0.025 mg/l
PNEC aqua (intermittent, freshwater)	0.43 mg/l
PNEC sediment (freshwater)	0.9 mg/kg dwt
PNEC sediment (marine water)	0.09 mg/kg dwt
PNEC soil	50.7 mg/kg dwt

<b>Engineering Controls:</b>	Ensure good ventilation of the work station. Wash hands before break and at end of works. Avoid dust formation.
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**Personal Protection Equipment:**



<b>Eyes:</b>	Chemical goggles.
<b>Skin/Hands:</b>	Chemically resistant protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Wear suitable protective clothing.
<b>Respiratory:</b>	In case of inadequate ventilation wear respiratory protection. Filter type: P1
<b>General:</b>	Do not eat, drink or smoke when using this product. Do not breathe dust. Wash hands before breaks and after work. Avoid contact with skin and eyes.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Granular
<b>Colour</b>	Dark Red
<b>Odour</b>	None to slight
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<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>	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>Specific Gravity</b>	Not available
<b>Water Solubility</b>	Soluble
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	> 130 °C
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

## Section 10: STABILITY AND REACTIVITY

<b>Stability of Substance</b>	Stable at ambient temperature and under normal conditions of use.
<b>Possibility of hazardous reactions</b>	No dangerous reactions known.
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	Organic materials.
<b>Hazardous Decomposition Products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11: TOXICOLOGICAL INFORMATION

**Acute Effects:**

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

<b>Eye</b>	Causes serious eye irritation.
<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.

#### Individual component information:

##### Acute Toxicity:

<b>Chemical Name</b>	<b>Oral – LD50</b>	<b>Dermal – LD50</b>	<b>Inhalation – LC50</b>
Ammonium Nitrate (6484-52-2)	2950 mg/kg (rat)	>5000 mg/kg (rat)	>88.8 mg/l/4h (rat)
Ammonium Chloride (12125-02-9)	1410 mg/kg (rat)	>2000 mg/kg (rat)	-

## Section 12: ECOLOGICAL INFORMATION

May cause long lasting harmful effects to aquatic life.

<b>Product:</b>	
<b>Persistence and degradability</b>	Not applicable for inorganic substances.
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

#### Individual component information (Please refer to [www.epa.govt.co.nz](http://www.epa.govt.co.nz) for full details):

##### Ammonium Nitrate (6484-52-2)

<b>Route</b>	<b>Species</b>	<b>Duration</b>	<b>Value LC50/EC50</b>
EC50 Daphnia 1	Daphnia Magna	48 hr	>490 mg/L
EC50 other aquatic organisms 1	Cyprinus carpio (Common carp)	48 hr	447 mg/L
Aquatic, Algal	Algae	10 d	1700 mg/L

##### Ammonium Chloride (12125-02-9)

<b>Route</b>	<b>Species</b>	<b>Duration</b>	<b>Value LC50/EC50</b>
EC50 Daphnia 1	Daphnia Magna	48 hr	161 mg/L
LC50 Fish 1	Cyprinus carpio (Karpfen)	96 hr	209 mg/L

Do not allow to enter waterways.

## Section 13: DISPOSAL INFORMATION

<b>Disposal Method:</b>	Collection into sealable containers and dispose of in an appropriate land fill. Reuse or recycle where possible. If practicable apply excess fertiliser at recommended rates to appropriate land. Observe any local authority restrictions that may apply.
<b>Container Disposal:</b>	Rinse containers thoroughly prior to reuse. Otherwise render unusable and dispose of as waste.
<b>Precautions or methods to avoid:</b>	Do not allow to enter waterways.

## Section 14: TRANSPORT INFORMATION

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

## Section 15: REGULATORY INFORMATION

<b>This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020</b>	
<b>EPA Approval Code:</b>	Fertilisers (subsidiary) – HSR002571

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	10 000kg
Emergency Response Plan	1000kg
Secondary Containment	10 000kg
Restriction of Use	Only use for the intended purpose.

## Section 16: OTHER INFORMATION

### Glossary

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
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 Feb 2025 15<sup>th</sup> 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 Ravensdown, if further information is required.

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