

Phosphate Rock

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Phosphate Rock
Other Names:	RPR, Sechura RPR, Nauru, Christmas, Vietnamese, Kaiyang, Togo, Ardmore, Elandsfontein, Bin Xin
Product Code:	n/a
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	2 May 2023

Section 2: HAZARD IDENTIFICATION

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT %
Phosphate Rock	N/A	100%

Section 4: FIRST AID MEASURES

Routes of Exposure:	
If in eyes:	Flush with plenty of water for several minutes, holding eyelids open if necessary. Remove contact lenses if present and easy to do. Seek medical advice if irritation persists.
If on skin:	Wash skin with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
If ingested:	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.
Most important symptoms and effects, both acute and delayed	
Symptoms:	None known.
Advice to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Hazard Type	Not flammable or combustible.
Hazards from combustion products	Decomposes on heating to form metal oxides and phosphorus oxides
Suitable Extinguishing media	Use media suitable for surrounding materials.
Precautions for firefighters and special protective clothing	Safety glasses/goggles and protective gloves.
HAZCHEM CODE	None allocated

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	
Wear appropriate protective clothing. Exclude non-essential people from the area.	
Environmental precautions:	
Avoid unintended release of excessive amounts into waterways or sewers.	
Methods and material for containment and cleaning up:	
Contain spill and sweep up. Collect and place in sealable containers. Avoid generating dust. Reuse or recycle where possible. Dispose as per Section 13.	

Section 7: HANDLING AND STORAGE

Handling:	Avoid generating dusts, do not breathe dusts. Avoid unintended release into the environment.
Storage:	Store away from incompatible materials listed in Section 10. Store in a cool, dry area.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Inspirable dust	-	10	-	-
Respirable dust	-	3	-	-

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.

Engineering Controls:	Handle in well ventilated area. If dust generated use local extraction to control. Avoid inhalation of dust.
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Personal Protection Equipment:



Eyes:	Wear safety glasses.
Skin/Hands:	Wear protective gloves and overalls.
Respiratory:	If dust is present wear dust mask.
General:	Do not eat, drink or smoke when handling this product. Remove contaminated protective clothing and wash hands and face before meals and after work.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Loose, sandy brown/grey solid.
Odour	Odourless
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.4 – 1.9
Water Solubility	Insoluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available

Section 10: STABILITY AND REACTIVITY

Stability of Substance	Stable under recommended storage conditions.
Possibility of hazardous reactions	Not data available.
Conditions to Avoid	None known.
Incompatible Materials	No specific incompatibilities.
Hazardous Decomposition Products	Decomposes on heating to form metal oxides and phosphorus oxides.

Section 11: TOXICOLOGICAL INFORMATION

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable
Reproductive Toxicity	Not applicable
Germ Cell Mutagenicity	Not applicable
Aspiration	Not applicable
STOT/SE	Not applicable
STOT/RE	Not applicable

Section 12: ECOLOGICAL INFORMATION

The mixture is not hazardous to the environment.

Persistence and degradability	No data available.
Bioaccumulation	No data available

Mobility in Soil	No data available.
Other adverse effects	No data available
Other	Avoid unintended release into the environment.

Section 13: DISPOSAL INFORMATION

Disposal Method:	Collection into sealable containers and dispose of in an approved land fill. Reuse or recycle where possible. If practicable apply excess fertiliser at recommended rates to appropriate land. Rinse containers thoroughly prior to reuse.
Precautions or methods to avoid:	None known.

Section 14: TRANSPORT INFORMATION

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

Section 15: REGULATORY INFORMATION

This substance is **NOT** classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 16: OTHER INFORMATION

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
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 April 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 Ravensdown, if further information is required.

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