


## Serpentine Super

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	Serpentine Super
<b>Other Names:</b>	Serp Super, Drilling Super, Serpentine Superphosphate
<b>Product Code:</b>	1700000
<b>Recommended Use:</b>	Fertiliser
<b>Restrictions of Use:</b>	Refer to Section 15
<b>Company Identification:</b>	Ravensdown Limited
<b>Address:</b>	292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011
<b>Customer Centre:</b>	0800 100 123
<b>National Poisons Information Centre:</b>	0800 POISON (0800 764 766)
<b>Emergency Phone Number:</b>	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
<b>Transport Emergency Phone Number:</b>	111 - tell operator what service is needed: Fire, Ambulance or Police
<b>Date of SDS Preparation</b>	17 April 2023

### Section 2: HAZARD IDENTIFICATION

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

<b>EPA Approval No:</b>	Fertilisers (subsidiary) – HSR002571
<b>Pictograms:</b>	
<b>Signal Word:</b>	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
P103	Read carefully and follow all instructions.
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.

<b>Storage Code</b>	<b>Storage Statement</b>
None allocated	

<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Dispose of according to Local Regulations or Authorities

**Section 3: COMPOSITION INFORMATION**

INGREDIENT	CAS No.	CONTENT %
Dunite	Proprietary	25
Superphosphate	8011-76-5	75

**Section 4: FIRST AID MEASURES**

<b>Routes of Exposure:</b>	
<b>If in eyes:</b>	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.
<b>If on skin:</b>	Wash skin with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Remove contaminated clothing.
<b>If ingested:</b>	Never give anything to the mouth of an unconscious person. If large quantities swallowed give 1 or 2 glasses of fluids to dilute. 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.
<b>If inhaled:</b>	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.
<b>Most important symptoms and effects, both acute and delayed</b>	
<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>Advice to Doctor:</b>	Treat symptomatically.

**Section 5: FIRE FIGHTING MEASURES**

<b>Hazard Type</b>	Not flammable or combustible.
<b>Hazards from combustion products</b>	Sulphur oxides, Phosphorous oxides
<b>Suitable Extinguishing media</b>	Use media suitable for surrounding materials.
<b>Precautions for firefighters and special protective clothing</b>	Wear full protective gear.
<b>HAZCHEM CODE</b>	<b>None allocated</b>

**Section 6: ACCIDENTIAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures:</b>
Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area. If possible, avoid contact with eyes and skin. Avoid generation of dusts, do not inhale.
<b>Environmental precautions:</b>
Avoid from entering drains, waterways or sewers.
<b>Methods and material for containment and cleaning up:</b>
Scrape up the product with a shovel and put it in a container which can always be used if the product is not contaminated Forward for disposal. Clean up affected area with plenty of water. Dispose as per Section 13.

## Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Read carefully and follow all instructions. Wash hands thoroughly after handling. Wear protective clothing as detailed in Section 8. Use personal protective equipment as required. Avoid generating dusts, do not breathe dusts. Avoid contact with skin and eyes. Avoid release to the environment.
<b>Storage:</b>	Store away from incompatible materials listed in Section 10. Store in a cool, dry area, well ventilated area.

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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

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

No exposure limits have been assigned for this product.

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 13<sup>TH</sup> EDITION.

<b>Engineering Controls:</b>	Handle in well-ventilated area. Avoid inhalation of dust. Dust mask if dust is a nuisance. Use local extraction to control dusts.
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#### Personal Protection Equipment:



<b>Eyes:</b>	Wear goggles with side shields. Avoid wearing contact lenses.
<b>Skin/Hands:</b>	Wear protective gloves.
<b>Respiratory:</b>	Wear a protective mask.
<b>General:</b>	Do not eat, drink or smoke while using the product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work. Contaminated clothing should not be allowed out of the workplace.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Granules
<b>Colour</b>	Grey semi granular product
<b>Odour</b>	Odourless
<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>	Not available
<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>	1184 kg/m <sup>3</sup>

<b>Water Solubility</b>	Soluble
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Granulometrics (mm)</b>	Not available

### Section 10: STABILITY AND REACTIVITY

<b>Stability of Substance</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Not data available.
<b>Conditions to Avoid</b>	High humidity.
<b>Incompatible Materials</b>	Sulphur oxides, phosphorous oxide.
<b>Hazardous Decomposition Products</b>	No data available.

### Section 11: TOXICOLOGICAL INFORMATION

#### Acute Effects:

<b>Swallowed</b>	Not applicable however if swallowed may cause nausea, vomiting, thirst and headache. In large quantities may cause disturbances in calcium metabolism.
<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

### Section 12: ECOLOGICAL INFORMATION

May cause long lasting harmful effects to aquatic life.

<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available.
<b>Other adverse effects</b>	No data available

Avoid unintended release into streams and waterways.

### Section 13: DISPOSAL INFORMATION

<b>Disposal Method:</b>	Using the product correctly should not generate waste. Disposal of unused product in the landfill. Dispose empty packaging safely with domestic rubbish.
<b>Precautions or methods to avoid:</b>	Avoid unintended release into streams and 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

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

EPA Approval Code: Fertilisers (subsidiary) – HSR002571

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	10 000kg
Emergency Response Plan (Schedule 5)	10 000 kg
Secondary Containment (Schedule 5)	10 000 kg
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
Location Certificate	Not required
Restrictions of use	None known.

## 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.
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 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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