


## COMPOUND STARTER

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	COMPOUND STARTER
<b>Product Code:</b>	4530000
<b>Recommended Use:</b>	Agricultural 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>	26 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.

Prevention Code	Prevention Statement
P103	Read label before use.
P264	Wash hands thoroughly after handling.
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
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
Ammonium sulphate	7783-20-2	10-15
Mono-ammonium phosphate	7722-76-1	30-35
Potassium Chloride	7447-40-7	25-30

### 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.
<b>If ingested:</b>	Rinse mouth. Do NOT induce vomiting. Give a glass 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. Seek medical attention if needed.
<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.

### Section 5: FIRE FIGHTING MEASURES

<b>Hazard Type</b>	Not flammable or combustible.
<b>Hazards from combustion products</b>	Non-combustible by decomposition may produce combustion of organic products.
<b>Suitable Extinguishing media</b>	Sprayed water or a large amount of water, air/water mechanical emulsion. Do not use Foam with organic emulsifier, sand and CO2.
<b>Precautions for firefighters and special protective clothing</b>	Wearing individual breathing apparatus is strongly recommended. Prevent fire-lighting water from entering wastewater.
<b>HAZCHEM CODE</b>	<b>None allocated</b>

### Section 6: ACCIDENTAL 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. 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 label before use. Avoid generation of dust. Wash hands thoroughly after handling. Wear protective clothing detailed in Section 8.
<b>Storage:</b>	Store away from incompatible materials listed in Section 10. Store containers tightly closed in a cool, well-ventilated place. Avoid all contamination by combustible materials. The product in bulk must be covered because of moisture. Recommended packaging materials: Plastic material (polypropylene or polyethylene).

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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

Substance	TWA ppm mg/m <sup>3</sup>	STEL ppm mg/m <sup>3</sup>
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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 NOV 2020 12<sup>TH</sup> EDITION.

<b>Engineering Controls:</b>	Ensure ventilation is adequate of work place.
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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>	Always wash hands after handling product. Do not drink, eat or smoke at workplace. Wash contaminated clothing before re-use.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Solid in pellets
<b>Colour</b>	Off white
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not available
<b>pH</b>	>5
<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 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>	>150°C
<b>Decomposition Temperature</b>	Not available

<b>Kinematic Viscosity</b>	Not available
<b>Granulometrics (mm)</b>	2 to 4.75

## Section 10: STABILITY AND REACTIVITY

<b>Stability of Substance</b>	Stable under normal conditions. The mixture is slightly hygroscopic.
<b>Possibility of hazardous reactions</b>	Not available
<b>Conditions to Avoid</b>	None when applied and handled in accordance with conditions for use. Avoid pressurization and rise in temperature.
<b>Incompatible Materials</b>	Alkaline or strong acids, oils, reducing agents or catalysts (metallic powder, copper, zinc, and their alloys).
<b>Hazardous Decomposition Products</b>	None known.

## 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

## Section 12: ECOLOGICAL INFORMATION

The mixture is hardly toxic for water life.

Large discharge of phosphates into stagnant water can cause eutrophication. There is no risk of any ecological problems when appropriately handled and used.

<b>Persistence and degradability</b>	The mixture is easily degradable by plants. Nothing known for ground and water organisms.
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	Nitrogen, phosphates, sulphate and ammonium are adsorbed by the soil.
<b>Other adverse effects</b>	No data available

## Section 13: DISPOSAL INFORMATION

<b>Disposal Method:</b>	Using the product correctly should not generate waste. Disposal by incinerating or upgrading the material by recycling after disposing of product residue by washing with water.
<b>Precautions or methods to avoid:</b>	None known.

## Section 14: TRANSPORT INFORMATION

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

## 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)	Not required
Emergency Response Plan (Schedule 5)	Not required
Secondary Containment (Schedule 5)	Not required
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 Nov 2020 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

### Disclaimer

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Please contact Ravensdown, if further information is required.

Issue Date: 3 July 2023

Review Date: 3<sup>rd</sup> July 2023