


## Lime

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	Lime
<b>Other Names:</b>	Calcium carbonate, Lime, Ground limestone, Calcite, Lime Flour, Track Rock
<b>Product Code:</b>	0300000, 0335000, 8200010
<b>Recommended Use:</b>	For use as a fertiliser and animal supplement
<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>	23 June 2021

### 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

HSNO Classification	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	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Calcium carbonate	471-34-1	70-99

### Section 4: FIRST AID MEASURES

<b>Routes of Exposure:</b>	
<b>If in eyes:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>If on skin:</b>	Wash effected area with water and then soap and water. Wash hands thoroughly before eating. Remove contaminated clothing. Seek medical attention if needed.
<b>If ingested:</b>	If large quantities have been swallowed, give 1 or 2 glasses of fluids to dilute (if conscious) – seek medical attention. Never give anything by mouth to an unconscious person.
<b>If inhaled:</b>	Remove patient from area of exposure. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if patient is not breathing. Seek medical advice if needed.
<b>Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms:</b>	Refer to Section 11 for all symptoms.
<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>	Non Flammable
<b>Hazards from combustion products</b>	No data available.
<b>Suitable Extinguishing media</b>	Use extinguishing media suitable for surrounding area.
<b>Precautions for firefighters and special protective clothing</b>	No data available.
<b>HAZCHEM CODE</b>	None allocated.

### 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.	
<b>Environmental precautions:</b>	
Avoid unintended release of excessive amounts into waterways or sewers. If spill does enter waterway contact local authority.	
<b>Methods and material for containment and cleaning up:</b>	
Sweep up as much as possible. Avoid generating dusts. If required, dispose of waste safely and responsibly in an approved landfill.	

### Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Read label before use. Wash hands thoroughly after handling. Wear protective clothing as detailed in Section 8. Avoid generating dust.
<b>Storage:</b>	Store in a cool, dry, well ventilated area. Store away from incompatible materials listed in Section 10.


## 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>
Calcium carbonate [471-34-1]	-	10	-	-

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 2019 11<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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<b>Personal Protection Equipment:</b>	
	
<b>Eyes:</b>	Safety glasses. If dust present wear goggles. Eye wash facilities should be available.
<b>Skin/Hands:</b>	Overalls, gloves.
<b>Respiratory:</b>	Dust mask.
<b>General:</b>	Do not eat, drink or smoke while using this 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>	Solid Fine lime = 95% < 100 micron Ag Lime = 95% <2mm, 50% 0.5mm
<b>Colour</b>	White to off white / yellow
<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>	825°C
<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>Specific Gravity</b>	2.7 g/cm <sup>3</sup>
<b>Bulk Density</b>	2700 kg/m <sup>3</sup>
<b>Water Solubility</b>	Negligible
<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>Particle Characteristics</b>	Not available

## Section 10: STABILITY AND REACTIVITY

<b>Stability of Substance</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Not available
<b>Conditions to Avoid</b>	Acids, fluorine, ammonium salts, alum (oxidising agents), Will burn fiercely in contact with fluorine, hygroscopic.
<b>Incompatible Materials</b>	No data available.
<b>Hazardous Decomposition Products</b>	None known.

## Section 11: TOXICOLOGICAL INFORMATION

Under normal conditions of use adverse health effects are not anticipated. This product is generally considered to be of low toxicity, however over exposure to any dust should be avoided. Use safe work practices to avoid direct eye contact or prolonged skin contact and dust generation or inhalation.

### Acute Effects:

<b>Swallowed</b>	Not applicable. LD50: 6450 mg/kg, oral, rat
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Causes severe 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

This product is not hazardous to the environment.

<b>Product:</b>	
<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>	Avoid washing excessive amounts into streams and waterways. Avoid unintended release into the environment.

## Section 13: DISPOSAL INFORMATION

<b>Disposal Method:</b>	Observe any local authority restrictions that may apply. Collection into sealable containers and dispose of responsibly into an approved land fill.
<b>Container Disposal:</b>	Rinse containers thoroughly prior to re-use. Otherwise render unusable and dispose of responsibly according to waste management program on site.
<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 2017**

<b>EPA Approval Code:</b>	Fertilisers (subsidiary) – HSR002571
<b>GHS Classification:</b>	Eye irritation Cat. 2

<b>HSW (HS) Regulations 2017</b>	<b>Trigger Quantity</b>
Signage Trigger Quantities (Schedule 3)	Not required
Emergency Response Plan (Schedule 5)	Not required
Secondary Containment (Schedule 5)	Not required
Location Certificate	Not required
Tracking (Schedule 26)	Not required
Certified Handlers	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 2017 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.

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