



# Material Safety Data Sheet

## Agricultural Lime – from McDonald's Lime Limited

Material Safety Data Sheets are provided to assist the user in compliance with the Health and Safety in Employment Act 1992 and associated regulations.

### CHEMICAL DATA

**Formula for McDonald's Agricultural Lime:**

McDonald's Agricultural Lime is a high quality finely ground limestone produced from our quarry at Oparure.

McDonald's Agricultural Lime consists of calcium carbonate combined with small amounts of magnesium, iron and silicate minerals.

### HAZARDS IDENTIFICATION

**Not classified as a dangerous good according to NZS 5433.**

**UN No.** None Allocated

**Hazchem Code** None Allocated

**HASNO Class** 6.4A

**HASNO Approval No.** 002503

### PHYSICAL DATA

**Appearance and Odour:**

White fine powder, no odour

**Boiling Point:**

Not applicable, product is a powdered solid

**Melting Point:**

825°C

**Vapour Pressure:**

Not applicable, product is a powdered solid

**Bulk Density:**

1.4 – 1.6 tonnes/cubic metre

**pH:**

9.5 - 10.5 (100g/l at 20°C)

### PARTICLE SIZE SPECIFICATIONS

2mm 95% passing (minimum)

500micron 50% passing (minimum)

### STABILITY AND REACTIVITY

**Stability:**

Product is stable. Keep dry until used.

**Incompatibility:**

Will react violently with acids (eg. Sulphuric acid), fluorine, aluminium (hot) and ammonium salts.

### FIRE FIGHTING MEASURES

Agricultural Lime is non-flammable and non-explosive. No hazardous decomposition products are expected during normal use of this product. If combusted will release calcium oxide and carbon dioxide. Hazardous polymerisation will not occur.

### HEALTH HAZARD DATA

**Acute:**

Agricultural Lime can be a simple mechanical irritant to the eyes, skin, and upper respiratory system. Direct contact with the eyes may result in pain and redness. Inhalation can irritate the upper respiratory system causing coughing, and bronchitis at high levels. Prolonged skin contact may result in irritation, itching and possible rash. Ingestion of large doses may result in nausea, vomiting and gastrointestinal irritation.

**Chronic:**

Chronic respiratory effects are not expected to occur with over exposure at high levels due to the immediate irritant effects.

*This product contains small amounts of crystalline silica. Long-term exposure to crystalline silica causes silicosis, a form of pulmonary fibrosis. Continued exposure to crystalline silica can lead to cardiopulmonary impairment. Symptoms are usually delayed (10 years or more).*

## EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

| Name              | Formula           | CAS number | Proportion | NZ-WES-TWA  |
|-------------------|-------------------|------------|------------|---|
| Calcium Carbonate | CaCO <sub>3</sub> | 1317-65-3  | 92%        | 10mg/m <sup>3</sup> as inspirable dust<br>3mg/m <sup>3</sup> as respirable dust |
| Quartz            | SiO <sub>2</sub>  | 14808-60-7 | <2%        | 0.2mg/m <sup>3</sup> as respirable dust   |

### Respiratory Protection:

In dusty environments, an approved Class P1 or P2 particulate respirator is recommended.

### Ventilation:

An exhaust fan deducted from near point of generation can be used to control airborne dust levels. Dust levels and other discharge of dust should comply with Health and Safety in Employment Legislation, Resource Consents and any relevant District or Regional rules.

### Eye Protection:

Use tight fitting goggles or protective eyewear in dusty environments.

### Skin Protection:

Use impervious, abrasion and alkali resistant gloves, boots, and protective clothing to protect the skin from prolonged contact with wet dust. Immediately after working with wet dust, workers should shower with soap and water.

## EMERGENCY AND FIRST AID PROCEDURES

Pour clean water into eyes for at least 15 minutes and seek medical attention if irritation persists; wash exposed skin areas with soap and plenty of water. If irritation develops seek medical attention; if ill effects due to inhalation, move person to fresh air. Keep warm, quiet and seek medical attention.

## SPILL PROCEDURES

Steps to be taken in case material is spilled; use dry clean up methods that do not disperse dust into the air. Avoid inhalation of dust and contact with skin. Emergency procedures are not required.

### Disposal method:

Small amounts of material can be disposed of as common waste or returned to the container for later use if not contaminated. Large amounts may require special handling. Material should be kept out of storm water or sewer drains, any discharge during clean up should comply with any relevant District or Regional Council Requirements.

## STORAGE AND HANDLING

The material should be kept free from moisture until used. Normal temperatures and pressures do not affect the material. Promptly remove dusty clothing or clothing which is wet with Agricultural Lime fluids and launder before reuse. Wash thoroughly after exposure to dry or wet dust, and wet dust mixtures and fluids.

NOTE: THIS MATERIAL SAFETY DATA SHEET ATTEMPTS TO DESCRIBE AS ACCURATELY AS POSSIBLE THE POTENTIAL EXPOSURES ASSOCIATED WITH NORMAL LIME USE. HEALTH AND SAFETY PRECAUTIONS IN THE DATA SHEET MAY NOT BE ADEQUATE FOR ALL INDIVIDUALS AND/OR SITUATIONS. USERS HAVE THE RESPONSIBILITY TO EVALUATE AND USE THIS PRODUCE SAFELY AND TO COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS. IF UNSURE OF ITS CURRENCY PLEASE CONTACT McDONALD'S LIME.

MANUFACTURER'S  
NAME AND ADDRESS:

**HEAD OFFICE**  
McDonald's Lime Limited  
498 Old Te Kuiti Road  
RD 6  
OTOROHANGA  
Ph (07) 873 6740  
Fax (07) 873 7829

**PRODUCT NAME AND  
SYNONYMS**

**Agricultural Lime**  
Also referred to as:  
Lime, Fine Lime,  
Calcium Carbonate.

**NATIONAL POISONS  
CENTRE**

Ph 0800 764 766



ISO 9001  
ISO 14001