

## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **Lucerne Mix**  
 Product Use: Fertiliser  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Hatuma Lime Company Ltd**  
 Address: 520 Maharakeke Road  
 RD1, Waipukurau, 4281

Telephone: +64 6 858-8567  
 Fax Number: +64 6 858-8018

**Emergency Telephone: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 16 January 2023 v2

### Section 2. Hazards Identification

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

**EPA Approval No: Fertilisers (subsidiary) – HSR002571**

#### Pictograms



Irritant    Chronic    Corrosive

Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Reproductive toxicity Cat. 1	H360	May damage fertility or the unborn child ...
specific target organ toxicity – single exposure Cat. 3 respiratory tract irritation	H335	May cause respiratory irritation.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to terrestrial vertebrates	H432	Hazardous to terrestrial vertebrates

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust or fumes.
P264	Wash hands thoroughly after handling.

P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

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

### Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Dicalcic	40-50	Proprietary
Muriate of Potash	20-30	7447-40-7
Dolomite	10-20	Proprietary
Durasul	1-3	7704-34-9
Sodium calcium borate	1-3	1319-33-1
Other ingredients that do not contribute to the hazardous composition	10-15	Proprietary

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	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.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	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. Immediately call a POISON CENTER or doctor/physician.
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:

<b>Ingestion:</b>	Not applicable
<b>Inhalation:</b>	May cause respiratory irritation.
<b>Skin:</b>	Causes skin irritation.
<b>Eye:</b>	Causes serious eye damage.
<b>Chronic:</b>	May damage fertility or the unborn child.

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	Decomposes on heating emitting toxic fumes.
<b>Suitable Extinguishing media</b>	Use extinguishing media appropriate for surrounding fire.
<b>Precautions for firefighters and special protective clothing</b>	Fire fighters to wear self-contained breathing apparatus and suitable protective clothing.
<b>HAZCHEM CODE</b>	<b>1X</b>

### Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel.

Do not allow to enter into surface water or drains.

Avoid generating dust. Wear appropriate protective clothing to prevent skin and eye contact. Avoid breathing in dust. Contain spill and sweep or vacuum up, collect spilled product and place in properly labelled, sealable container for reuse or disposal. Dispose according to Local Regulations.

### Section 7. Handling and Storage

#### Precautions for Handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust or fumes.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.

#### Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Keep out of reach of children.
- Store in a well-ventilated place. Keep container tightly closed.
- Store only in original container.

### Section 8 Exposure Controls / Personal Protection

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

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

No ingredients have exposure limits.

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.

**Engineering Controls**

Handle in a well-ventilated area; ensure ventilation is adequate to maintain air concentrations below exposure standards. If dust is generated use local extraction to control. Avoid inhalation of dust. Keep containers closed when not in use.

**Personal Protection Equipment:**

<b>Eyes</b>	Tightly fitting safety glasses with side shields. Avoid wearing contact lenses.
<b>Skin</b>	Wear rubber gloves. Wear protective clothing.
<b>Respiratory</b>	Use respiratory protection in areas of poor ventilation.

**Section 9 Physical and Chemical Properties**

<b>Appearance</b>	Divided solid, particles of various sizes; slightly mixes with water
<b>Colour</b>	Grey –beige with yellow or brown particles, grey/brown crystals and granulated brown powder.
<b>Odour</b>	None
<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>Relative Density</b>	Not available
<b>Water Solubility</b>	Partly Miscible
<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>	Divided solid, particles of varying sizes

**Section 10. Stability and Reactivity**

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	Extreme temperatures, moisture
<b>Incompatible Materials</b>	Strong acids and bases, oxidisers
<b>Hazardous Decomposition Products</b>	Decomposes on heating emitting toxic fumes.

**Section 11 Toxicological Information****Acute Effects:**

<b>Swallowed</b>	Not applicable.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	May cause respiratory irritation.
<b>Eye</b>	Causes serious eye damage.
<b>Skin</b>	Causes skin irritation.

**Chronic Effects:**

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	May damage fertility or the unborn child
<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. Ecotoxicological Information**

Hazardous to terrestrial vertebrates.

<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

Do not allow to enter waterways

**Section 13. Disposal Considerations****Disposal Method:**

Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations. Dispose of rinsate and/or unwanted product as a hazardous material according to Local Regulations.

Ensure any container holding waste product, rinsate, or contaminated spill media is labelled "Hazardous Waste – Ecotoxic" and that the label also has the Ecotoxic Pictogram, waste type identifier, and the business name, address, and phone number.

**Precautions and methods to avoid:**

Do not allow to enter into surface water or drains where possible.

**Section 14 Transport Information**

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

**Section 15 Regulatory Information**

EPA Approval Code: Fertilisers (subsidiary) – HSR002571

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
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Product Name: Lucerne Mix  
Date of SDS: 16 January 2023

Prepared by: Technical Compliance Consultants (NZ) Ltd  
Tel: 64 9 475 5240 www.techcomp.co.nz

Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000kg
Emergency Response Plan	10 000kg
Secondary Containment	10 000kg
Restriction of Use	Only use for the intended purpose.

## 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 the New Zealand distributor, if further information is required.

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