

## SAFETY DATA SHEET

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

Product:	<b>Dairy Hay Blend</b>
Product Use:	Fertiliser
Restriction of Use:	Refer to Section 15
New Zealand Supplier:	<b>Hatuma Lime Company Ltd</b>
Address:	520 Maharakeke Road RD1, Waipukurau, 4281
Telephone:	+64 6 858-8567
Fax Number:	+64 6 858-8018
<b>Emergency Telephone:</b>	<b>0800 764 766 (National Poison Centre)</b>
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 Corrosive

Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
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.
P261	Avoid breathing dusts.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing.

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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P332 + P313	If skin irritation 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.
Muriate of Potash	20-30	7447-40-7
Hatuma Dicalcic	50-55	Proprietary
Dolomite	10-20	Proprietary
Salt	5-10	7647-14-5

### 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 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:

Causes skin irritation. May cause respiratory irritation. Causes serious eye damage.

#### for phosphate salts intoxication:

Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhoea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the faeces with the diarrhoea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity. Treatment should take into consideration both anionic and cation portion of the molecule.

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

All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcaemia, so calcium levels should be monitored.  
Treat symptomatically.

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	Decomposition may produce toxic fumes of: phosphorus oxides (PO <sub>x</sub> ), sulfur oxides (SO <sub>x</sub> ), metal oxides. May emit poisonous fumes. May emit corrosive fumes.
<b>Suitable Extinguishing media</b>	Use extinguishing media suitable for surrounding area.
<b>Precautions for firefighters and special protective clothing</b>	Wear self-contained breathing apparatus and chemical protective clothing in the event of a fire.
<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. Remove all sources of ignition.

Use mechanical handling equipment for cleanup. Dispose of according to Section 13.

Do not allow to enter into surface water or drains.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Avoid breathing dusts.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing.

### 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		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Calcium carbonate (Limestone, Marble) [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 APRIL 2022 13<sup>TH</sup> EDITION.

## Engineering Controls

Ensure adequate ventilation is available.

## Personal Protection Equipment:



<b>Eyes</b>	Tightly fitting safety glasses with side shields. Avoid wearing contact lenses.
<b>Hands</b>	Wear protective gloves eg, Butyl or Neoprene. Wear protective clothing.
<b>Skin</b>	Full cover clothing covering arms and legs.
<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 white, pink or red particles
<b>Odour</b>	Not available
<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, reducing agents, oxidizers
<b>Hazardous Decomposition Products</b>	Decomposition may produce toxic fumes of: phosphorus oxides (PO <sub>x</sub> ), sulfur oxides (SO <sub>x</sub> ), metal oxides. May emit poisonous fumes. May emit corrosive fumes.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not applicable. As absorption of phosphates from the bowel is poor, poisoning this way is less likely. Effects can include vomiting, tiredness, fever, diarrhoea, low blood pressure, slow pulse, cyanosis, spasms of the wrist, coma and severe body spasms.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	May cause respiratory irritation. The body's response to such irritation can cause further lung damage. Levels above 10 ug/m <sup>3</sup> of suspended

	inorganic sulfates in the air may cause an excess risk of asthmatic attacks in susceptible persons
<b>Eye</b>	Causes serious eye damage.
<b>Skin</b>	Causes skin irritation. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.

**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.

Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.

**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 unwanted product as a hazardous material according to Local Regulations.

**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**

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<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
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.

## 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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