


## Lucerne Mix + TE

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	Lucerne Mix + TE
<b>Product Code:</b>	N/A
<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>	10 October 2022

### 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
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child .
Hazardous to the aquatic environment chronic Cat. 4	H402	Harmful to aquatic life.

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.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

P281	Use personal protective equipment as required.
------	--

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P330	Rinse mouth.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

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

### Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT %
Potash	7778-80-5	25-30
Sodium Molybdate	7631-95-0	<0.5
Single Superphosphate	Mixture	35-40
Sulphur Super 30	Mixture	30-35
Sodium tetra borate	12179-04-3	1-3

### Section 4: FIRST AID MEASURES

Routes of Exposure:	
<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. 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. Call a POISON CENTER or doctor/physician if you feel unwell.
<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.
Most important symptoms and effects, both acute and delayed	
<b>Symptoms:</b>	
<b>Eyes:</b>	Causes serious eye irritation.
<b>Skin:</b>	Not applicable.
<b>Ingested:</b>	Harmful if swallowed.
<b>Inhaled:</b>	Not applicable.
<b>Chronic:</b>	Suspected of damaging fertility or the unborn child.
<b>Advice to Doctor:</b>	Treat symptomatically.

### Section 5: FIRE FIGHTING MEASURES

<b>Hazard Type</b>	Not flammable or combustible.
<b>Hazards from combustion products</b>	Metal oxides, sulfur oxides, boron oxide, phosphorus oxides
<b>Suitable Extinguishing media</b>	Use media suitable for surrounding materials.

<b>Precautions for firefighters and special protective clothing</b>	Wear full protective gear.
<b>HAZCHEM CODE</b>	<b>None allocated</b>

## 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. If possible, avoid contact with eyes and skin. 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. Avoid generating dust. Clean up affected area with plenty of water. Dispose as per Section 13.

## Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Keep out of reach of children. Read label before use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective clothing as detailed in Section 8. Use personal protective equipment as required. Avoid generating dusts, do not breathe dusts. Avoid contact with skin and eyes.
<b>Storage:</b>	Store away from incompatible materials listed in Section 10. Store locked up. Store in a cool, dry area, well ventilated area. Keep container tightly closed.


## 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>
Borates, tetra, sodium salts (Pentahydrate) [12179-04-3]	-	1	-	-

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.

<b>Engineering Controls:</b>	Ensure ventilation is adequate of work place. Minimise generation of airborne dust.
------------------------------	---

<b>Personal Protection Equipment:</b>	
	
<b>Eyes:</b>	Wear close fitting safety glasses or goggles to prevent dust getting in eyes.
<b>Skin/Hands:</b>	Wear protective clothing and gloves where there is a risk of moderate to high skin contamination from product.

<b>Respiratory:</b>	Wear particulate respirator where there is a risk of breathing in moderate to high levels of airborne dust.
<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.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Granular blend
<b>Colour</b>	Grey granules with a red chip
<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>Specific Gravity</b>	Not available
<b>Water Solubility</b>	Not available
<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>Granulometrics (mm)</b>	Not available

## Section 10: STABILITY AND REACTIVITY

<b>Stability of Substance</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Not data available.
<b>Conditions to Avoid</b>	None when applied and handled in accordance with conditions for use.
<b>Incompatible Materials</b>	None known.
<b>Hazardous Decomposition Products</b>	No data available.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Effects:

<b>Swallowed</b>	Harmful if swallowed.
<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>	Suspected of damaging 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: ECOLOGICAL INFORMATION

Harmful to aquatic life.

<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 INFORMATION

Disposal Method:	Reuse or recycle where possible. If practicable apply excess fertiliser at recommended rates to appropriate land. Collection into sealable containers and dispose of in an approved land fill. Observe any local authority restrictions that may apply.
	Rinse containers thoroughly prior to reuse. Otherwise render unusable and dispose of as waste.
Precautions or methods to avoid:	Do not allow to enter waterways.

## Section 14: TRANSPORT INFORMATION

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

## Section 15: REGULATORY INFORMATION

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

<b>EPA Approval Code:</b>	Fertilisers (subsidiary) – HSR002571
---------------------------	--------------------------------------

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	Not required
Emergency Response Plan (Schedule 5)	1000kg
Secondary Containment (Schedule 5)	1000kg
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 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**

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact Ravensdown, if further information is required.

Issue Date: 10 October 2022

Review Date:

10 October 2027