



MANTISSA

PRODUCT SAFETY DATA SHEET

1. **Product Name:** **LEGUMIX**
A micronutrient for agricultural and horticultural uses

Marketed by:
Mantissa Corporation Ltd, New Zealand.

Contact Points:
Mantissa Corporation Ltd
PO Box 746
Cambridge
New Zealand

Tel: 07 827 4856
Fax: 07 827 4806
Email: info@mantissa.co.nz

2. **Composition**
An aqueous solution of inorganic manganese, boron, cobalt and molybdenum salts.

Boron content:	3.5% w/v minimum
Manganese content:	4.0% w/v minimum
Other micronutrients non exceeding	0.2 – 0.5% w/v minimum

3. **Hazards Identification**
May cause slight irritation to eyes, skin and mucous membranes
HARMFUL if swallowed causing vomiting.

4. **First Aid Measures**
First aiders should prevent themselves from becoming contaminated.
Seek medical attention if anyone has symptoms apparently due to inhalation, ingestion or contact.
- | | |
|-------------|--|
| Eyes: | Irrigate contaminated eyes immediately with clean water for 15 minutes. |
| Skin: | Remove contaminated clothing and wash affected area with water. |
| Ingestion: | If swallowed, drink plenty of water or milk (never give anything by mouth to an unconscious casualty) then seek immediate medical attention. |
| Inhalation: | Remove from exposure. |

5. Fire Fighting Measures

Will not burn, but the solid residue that could result if the liquid evaporated in a fire is combustible.

Emits toxic fumes if heated to decomposition.

Fire fighters require self-contained breathing apparatus.

Extinguish fires preferably with dry chemical, foam or water spray.

Prevent entry of contaminated fire fighting water in watercourses, sewers or drains.

6. Accidental Release Measures

Wear suitable protective clothing.

Contain and cover spillage with inert absorbent material (e.g. sand or earth), transfer to containers and remove them to a safe place for disposal as chemical waste.

After cleaning, flush area with plenty of water.

Prevent entry of spillage or contaminated fire fighting water into watercourses, sewers or drains.

If entry has occurred or is threatened, advise the emergency services so they may advise the Water Authority.

7. Handling & Storage

Handling

Read the label before use.

When using, do not eat, drink or smoke.

Wash hands and exposed skin before meals and after work.

Wash out container thoroughly, empty washings into spray tank and dispose of safely.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Storage

Store away from reducing agents.

Keep in original container, tightly closed in a safe place.

Keep away from food, drink and animal feedingstuffs.

Keep out of reach of children.

Store in a well ventilated, cool but frost-free place.

8. Exposure controls/Personal Protection

Wear suitable protective gloves and face shield when handling the concentrate.

9. Physical & Chemical Properties

Appearance: A clear orange/brown liquid

Odour: Odourless

Specific Gravity: 1.23 – 1.24 at 20°C

Viscosity: Mobile, free flowing

pH: 7.8

10. Stability & Reactivity

Very stable.

Stores in original container for at least two years under normal pesticide storage conditions.

Do not allow to freeze.

11. Toxicological Information

Acute oral toxicity: Low toxicity LD₅₀>2,000 mg/kg bw.
Acute dermal toxicity: Low toxicity LD₅₀>4,000 mg/kg bw.
Irritation: May be irritating to skin and eyes.

12. Ecological Information

The product is of low toxicity to fish.
The components of the product are readily biodegradable and bio-accumulation is extremely unlikely.

13. Disposal Considerations

Contain and cover spillage with inert absorbent material (eg sand or earth), transfer to containers and remove them to a safe place for disposal as chemical waste.

Do not contaminate ponds, waterways or ditches with chemical or used containers.

Prevent entry of product into watercourses, sewers or drains.

If entry has occurred or is threatened, advise the emergency services so they may advise the Water Authority.

14. Transport Information

For Road Transport: Non hazardous
UN Number: No UN number
Proper Shipping Name: Non hazardous
IMDG Class: N/A
CPL Packing Group: N/A

15. Regulatory Information

R36/38 Irritating to eyes and skin.

S7 Keep container tightly closed.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S49 Keep only in the original container.
S56 Dispose of this material and its container at hazardous or special waste collection point.

16. Other Information

The above information is intended to give health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses; consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted for any injury loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

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