



MANTISSA

PRODUCT SAFETY DATA SHEET

1. **Product Name:** **MYCROBOR DF**
A micronutrient fertiliser for use in agriculture and horticulture

Marketed by:
Mantissa Corporation Ltd, New Zealand.

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2. **Composition**
Sodium pentaborate decahydrate

3. **Hazards**
Not classified as hazardous

4. **First Aid Measures**
- Eyes: Irrigate with clean water for at least 15 minutes. Seek medical attention if any irritation or redness persists.
- Skin: Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention if any irritation or redness persists.
- Ingestion: If swallowed drink plenty of water or milk and seek medical advice
- Inhalation: Remove from exposure and provide maximum ventilation

5. **Fire Fighting Measures**
- This product will not burn and is used as a flame retardant. If involved in a fire, fumes and vapours may be harmful. Fire fighters should wear breathing apparatus.
- Use dry chemical, foam, water spray, sand or earth. Prevent entry of the product or contaminated water into watercourses ditches or drains.

6. **Accidental Release (Spillage)**
- Wear suitable protective clothing (Refer to Section 8 below). Sweep up spill and transfer to a container for later removal to a safe place for disposal. Flush the area with plenty of water when all the spillage has been removed. Prevent the spillage from entering watercourses sewers or drains. Inform the proper authorities if gross contamination of water is threatened or occurs.

7. Storage and Handling

Keep in original container, tightly closed to prevent ingress of moisture.
Keep cool and dry in a suitable agricultural chemical store.

8. Personal Protection

Wear suitable protective gloves and face-shield when handling the powder. If necessary for personal comfort, wear a dust mask. Avoid breathing the spray mist when using.

Exposure Limit TLV / TWA = 5mg/m³

9. Physical and Chemical Properties

Appearance: A white finely divided crystalline solid
Odour: Virtually odourless
Bulk Density 850 – 890 kg/m³
Melting point 750°C

10. Stability and Reactivity

Very stable. Stores for at least 2 years in original containers in normal agricultural chemical storage conditions. Keep dry. Keep away from strong reducing agents.

11. Toxicological Information

This product is of low toxicity:

Acute oral LD50: >2,000 mg/kg.bw (rat)
Acute dermal LD50: Expected to be >4,000 mg/kg.bw
Irritancy: May be mildly irritating to skin, eyes and respiratory tract but not a skin sensitiser.
Chronic toxicity: Persistent prolonged overexposure can cause gastrointestinal problems and skin lesions. Ingestion of large quantities has been shown to cause atrophy of male sexual organs in animal studies.

12. Environmental Protection

Toxicity to fish:
96-hour LC50 to Trout: 27 – 54 mg/litre
to Goldfish: 59 – 65 mg/litre
to Catfish: 71 – 155 mg/litre

Do not contaminate surface waters or ditches with any chemical or used containers.

Effects in the Soil: This product is easily absorbed by soil

13. Disposal of Unwanted Product and Used Containers

Consult the local authorities before disposing of unwanted chemical.
Dispose of empty bags by burning or as permitted by local authorities. Do not re-use containers for any purpose.

14. Transport Information

Road Transport:	Not hazardous
UN Number:	No UN Number
Proper Shipping Name:	Non-hazardous
IMDG Class:	Not applicable
CPL Packing Group:	Not applicable

15. Regulatory Information

No statutory phrases necessary

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 purpose the product label and any appropriate technical usage literature available should be consulted and any relevant licences, 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 to the best of the issuer's available knowledge at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

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