

PRODUCT SAFETY DATA SHEET

BOSON

1. Identification of the Preparation and the Company:

Trade name: BOSON

Manufacturer's Development Code: HA191

Function: A micronutrient fertiliser for use in agriculture.

Company Identification:

Headland Agrochemicals Ltd., Rectors Lane, Pentre, Deeside, Flintshire CH5 2DH, U.K.

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2. Hazards:

Not classified as hazardous.

Contains 1,2-benzisothiazolin. May cause an allergic reaction.

3. Composition:

A formulation of boron ethanolamine, magnesium hydroxide, manganese carbonate, zinc oxide, elemental sulphur, sodium molybdate and urea in aqueous suspension with surfactants, suspending agents and a stabiliser.

Hazardous components:

1,2-benzisothiazolin (CAS No. 2634-33-5): <1.0%

Classification: Xn (R22/38/43), N, R50/53

4. First Aid Measures:

Eyes: Irrigate with clean water for at least 15 minutes and seek medical attention.

Skin: Remove contaminated clothing. Wash thoroughly with plenty of water. Seek medical attention if any irritation or redness persists.

Ingestion: If swallowed drink milk or water to soothe the affected parts. Seek medical advice. Do not induce vomiting.

Inhalation: Remove from exposure and provide maximum ventilation.

Guide to

Doctors

This product is not considered hazardous but contains 1,2-benzisothiazolin which may cause an allergic reaction in sensitive individuals. There is no specific antidote for exposure; treatment should be symptomatic and supportive.

5. Fire Fighting Measures

This product is water-based and will not burn. If involved in a fire, fumes and vapours may be harmful and may include oxides of sulphur, carbon and nitrogen. Fire fighters should wear breathing apparatus.

Extinguishing media: Use dry chemical, foam, water spray, sand or earth but avoid high pressure water jets if possible.

Prevent entry of the product or contaminated water into watercourses ditches or drains by bunding the area with sand or earth if possible.

6. Accidental Release (Spillage)

Wear suitable protective clothing (see Section 8). Remove contaminated clothing immediately. Do not eat drink or smoke. Keep bystanders away. Absorb spillage with inert material (e.g. sand or earth), shovel or sweep up and transfer to a labelled container for later removal to a safe place for disposal. Wash down the area with plenty of water when all traces of the spill have been removed.

Prevent the spillage from entering watercourses sewers or drains by bunding if necessary. Inform the authorities (Environment Agency / Scottish Environment Protection Agency) immediately if contamination of waterways, sewers or drains is threatened or occurs.

7. Storage and Handling

Shake the container well before opening and use. Wash all protective clothing thoroughly after use especially the insides of gloves. Take off contaminated clothing immediately. Wash hands and exposed skin before meals and after work.

Keep in original container, tightly closed.

Keep cool and dry in a suitable agricultural chemical store away from food, drink and animal feedingstuffs and out of reach of children.

Protect from frost - store above 5°C. Do not store in direct sunlight or near direct sources of heat.

8. Personal Protection

Wear suitable protective gloves and face protection (face-shield) when handling the concentrated product. Avoid breathing the spray mist when using. Decontaminate all personal protective equipment after use.

Occupational Exposure Limits: None applicable

9. Physical and Chemical Properties

Appearance:	A brown opaque mobile liquid
Odour:	Little or no odour
Solubility:	Completely disperses in water
Specific Gravity:	1.33
pH:	8.3 approx.
Flashpoint:	Will not burn.
Explosivity:	Not explosive
Oxidising:	Not an oxidiser.

10. Stability and Reactivity

Stability: Stable at ambient temperatures.

Reactivity: Not evaluated.

Conditions to avoid: None known

11. Toxicological Information

Acute Toxicity:

Acute oral LD50: > 4,000 mg/kg.bw (by calculation).

Acute dermal LD50: > 4,000 mg/kg.bw (by calculation).

Irritancy: May be mildly irritating to skin and eyes.
Contains 1,2-benzisothiazolin. May cause an allergic reaction

Chronic toxicity No information.

12. Environmental Protection

This product is not expected to be harmful to aquatic organisms or to cause long-term adverse effects in the aquatic environment. Do not contaminate surface waters or ditches with chemical or used container. Avoid contamination of water by spray drift.

The components of the formulation will biodegrade in the environment and bioaccumulation is unlikely to occur.

13. Disposal of Unwanted Product and Used Containers

Consult the local authorities before disposing of unwanted chemical.

Triple-rinse and puncture used containers and dispose of as permitted by local authorities. Do not re-use containers for any purpose.

14. Transport Information

Road Transport: Not classified

UN Number: None

Proper Shipping Name: None

CPL Packing Group: None

ADR/RID Description: None

IMDG Class: Not classified

15. Regulatory Information

No statutory phrases apply.

Advisory phrases: S2 Keep out of reach of children
S13 Keep away from food, drink and animal feedingstuffs
S37/39 Wear suitable gloves and eye/face protection.

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.

Boson is a Headland trademark

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