



PRODUCT SAFETY DATA SHEET

1. **Product Name:** **BIO-BLAST**
Lime Sulphur - fungicide for use in agriculture and horticulture

Marketed by:
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2. **Hazards:**
Dangerous Goods: Not Applicable
HSNO Classification: 6.3A, 8.3A, 9.1D, 9.3C

DANGER:
Causes skin irritation.
Causes serious eye damage.
May cause long lasting harmful effects to aquatic life.
Harmful to terrestrial vertebrates.

Prevention Statements: Keep out of reach of children.
If medical advice is needed, have product container or label at hand.
Read label before use.
Read safety data sheet before use.
Wash hands thoroughly after handling.
Wear protective gloves and eye/face protection.

Response Statements: If medical advice is needed, have product container or label at hand.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
If skin irritation occurs: Get medical advice/ attention.
Take off contaminated clothing and wash before re-use.

3. Composition:

Appearance: Gold/brown liquid with "rotten egg" smell.

CAS No: 1344-81-6 Polysulphides of Calcium (Ca. 30%)
Water, thiosulphates (to 100%)

4. First Aid Measures:

Ingestion: Call a doctor. Rinse mouth then give a glass or two of water or milk. DO NOT induce vomiting unless medical assistance is delayed by 30 minutes (take care to avoid patient inhaling stomach contents). If breathing stops start mouth to nose resuscitation. Arrange urgent transport to hospital. Administer charcoal as a slurry.

Eye Contact: Wash eye with gently running water for at least 20 minutes. Do not rub the eye. Lightly cover the eye with a sterile dressing. Seek medical attention immediately.

Skin Contact: Quickly remove contaminated clothing. Wash skin with large quantities of water. Burned areas may be bathed in warm baking soda or salt solution (1 teaspoon per litre). Seek medical attention.

Inhalation: Remove the casualty from further contamination. Seek medical attention if breathing difficulty occurs.

5. Fire Fighting Measures

Non flammable.

Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition. If material not involved in fire: Keep material out of water sources and sewers.

6. Accidental Release (Spillage)

Spill Cleanup: Contain and absorb using inorganic material - do not use sawdust or paper. Avoid contamination of waterways. Small quantities may be washed to drain with large quantities of water.

7. Storage and Handling

Handling: Non-flammable. Contact with acids may liberate toxic gas (hydrogen sulfide). Wear gloves and appropriate respiratory and eye protection when handling concentrates or spraying. Use with adequate ventilation - avoid creation and inhalation of aerosols. After use wash hands before eating, drinking or smoking. Avoid bodily contact with the material. Do not handle broken packages unless wearing appropriate personal protective equipment.

Storage: Do not store with acids, food or food containers. Store in original container, tightly closed, away from foodstuffs and out of reach of children.

8. Personal Protection

Exposure Standards: TWA 10ppm (based on H₂S) - product is mainly used outside.

Engineering Controls: Use with adequate ventilation - avoid creation and inhalation of aerosols.

Personal Protection: Wear gloves and appropriate respiratory and eye protection when handling concentrates or spraying.

9. Physical and Chemical Properties

Appearance and Odour:	Gold/brown liquid with "rotten egg" smell.
Solubility in Water (g/l):	Miscible in all proportions.
Specific Gravity:	1.24
Boiling / Melting point (C):	Not Available
Vapour Pressure:	Not Available
Flashpoint (C):	Nil
Flammability Limits (%):	Not Applicable
pH Value:	10.6

10. Stability and Reactivity

Stability:	Stable. Decomposed by carbon dioxide, acids, and soluble salts of metals that form insoluble sulphides; sulphur, hydrogen sulphide and the metal sulphide being formed.
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11. Toxicological Information

General:	Corrosive. May be harmful if ingested, inhaled, gets in eyes or absorbed through skin. May cause an allergic reaction in sensitive individuals.
Ingestion:	Irritant. Potentially toxic. Ingestion can result in nausea, vomiting, diarrhoea and central nervous system effects of giddiness, headache, vertigo, amnesia, confusion and unconsciousness. Mucosal burns of the oesophagus and stomach have been reported following ingestion.
Eye Contact:	Irritant - pain in the eye - closed, reddened, swollen or watering excessively. Can't stand light.
Skin Contact:	Irritant - corrosive.
Inhalation:	Unlikely unless mixed with acid - potentially toxic/irritant - avoid creating aerosols or mists. Inhalation may result in shortness of breath, cough, tightness and burning of the chest, pulmonary edema, and even respiratory distress and failure. Pneumonia may occur after initial recovery.

Notes to Physician:

Treat symptomatically and for possible Hydrogen Sulphide poisoning.

12. Environmental Protection

- 9.1D Ecotoxic in the Aquatic Environment (Low Hazard)
- 9.3C Ecotoxic to Terrestrial Vertebrates (Medium Hazard)

13. Disposal of Unwanted Product and Used Containers

Container Disposal:	Dispose of empty containers safely in accordance with local regulations. Triple rinse empty containers and add rinsate to use solutions. Avoid contamination of any water supply with chemical or empty container.
Product Disposal:	Dispose of chemicals safely in accordance with local regulations. Avoid contamination of any water supply with chemical or empty container.

14. Transport Information

UN No:	Not Applicable
Dangerous Goods Class:	Not Applicable
Hazchem Code:	Not Applicable
Packing Group:	Not Applicable
Proper Shipping Name:	Not Applicable
Segregation:	Do not store with acids, food or food containers.
Limited Quantities:	Not Applicable

15. Regulatory Information

Registered pursuant to ACVM Act 1997, No. P7793

ERMA Approval Code: HSR000502

Substance Name: Soluble concentrate containing 150 - 200 g/litre sulphur as polysulphides of lime

HSNO Classifications: 6.3A Toxic Substance - Skin Irritant (High Hazard)
 8.3A Corrosive to Ocular Tissue (High Hazard)
 9.1D Ecotoxic in the Aquatic Environment (Low Hazard)
 9.3C Ecotoxic to Terrestrial Vertebrates (Medium Hazard)

HSNO Controls:

Trigger quantities for this substance by itself in a Place:

Approved Handler Test Certificate:	Not required
Hazardous Substance Location:	Not required
Location Test Certificate:	Not required
Hazardous Atmosphere Zone:	Not required
Emergency Plan:	10,000 litres
Tracking:	Not required
Warning Sign:	1000 litres
Record of application or discharge:	Not required

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.