

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:

PRODUCT NAME: **Liba 10,000**
MANUFACTURER: Zelam Ltd
SUPPLIER NAME: Zelam Ltd
SUPPLIER ADDRESS: 13-15 Hudson Rd, Bell Block, New Plymouth, New Zealand
SUPPLIER PHONE: +64 6 7559234 SUPPLIER FAX: +64 6 7551174
EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PHONE: +64 4 917 9888
CHEMICAL FAMILY: Indole derivative USE: Plant growth regulator

2. HAZARDS IDENTIFICATION:

6.3A, Harmful - may cause skin irritation. Avoid contact with skin.
6.4A, Harmful - may cause eye irritation. Avoid contact with eyes.
9.1C, Harmful to fish with long-lasting effects. Avoid contamination of any water supply with product or empty container.

Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Indole butyric acid	133-32-5	<2	H301, H315, H319, H402
Water		balance	

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Get medical attention if irritation persists.
SKIN CONTACT: Remove contaminated clothing immediately. Flush with flowing water and wash with soap and water immediately for at least 15 minutes. Wash clothing before reuse.
INHALATION: If ill-effects occur, move the victim to fresh air. If ill-effects persist, medical attention.
INGESTION: Not expected to cause any ill effects. If ill effects occur, drink several glasses of water. DO NOT induce vomiting. Seek medical advice.

NOTES TO DOCTOR: No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Non flammable. HAZCHEM CODE: 2 [Z]
FLAMMABLE LIMITS: Not applicable.
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
THERMAL DECOMPOSITION PRODUCTS: None.
SPECIAL FIRE FIGHTING METHODS: None.
UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately. Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.
Store in original container, tightly closed away from food, food related materials, animal feedstuffs, seed or fertilizer.
Wear eye protection. Waterproof gloves should be worn at all times.
Wash protective clothing daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No exposure limits (WES, TEL, or EELs) have been specifically assigned for this product.
EYE PROTECTION: Chemical goggles or face shield where splash may occur.
RESPIRATORY PROTECTION: Not normally required. Exceptions: during the formation of mists or aerosols or in the case of fire.
PROTECTIVE CLOTHING: PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.
VENTILATION: General (mechanical) room ventilation is considered satisfactory.
HYGIENE PRECAUTIONS: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Pink-brown to clear coloured liquid.		
BOILING POINT:	~100	pH:	7.5 - 8.5.
DENSITY:	1.00	SETTING POINT:	Not available.
DECOMPOSITION TEMP:	Not available.	AUTOIGNITION TEMP:	Not applicable.
FLASHPOINT:	Not applicable.	VAPOUR DENSITY:	Not available.
EXPLOSION PROPERTIES:	Not applicable.	VAPOUR PRESSURE:	Not available.
SOLUBILITY:	Mixes readily in water.		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not available.		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	None.
MATERIALS TO AVOID:	None.
HAZARDOUS DECOMPOSITION	None.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 Rats: > 5000 mg/Kg.
ACUTE DERMAL:	LD50 Rats: > 5000 mg/Kg.
ACUTE INHALATION:	LC50 Rats: > 5.0 mg/L.
OTHER TOXICITY INFORMATION:	
May cause skin and eye irritation. Avoid contact with skin or eyes.	

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity:	Harmful to fish.
Soil Toxicity:	Not toxic to worms.
Terrestrial Vertebrates - Birds:	Not toxic to birds.
Terrestrial Invertebrates - Bees:	Not toxic to bees.

Harmful to fish with long-lasting effects. Avoid contamination of any water supply with product or empty container.

13. DISPOSAL CONSIDERATIONS:

Dispose of this product only by using according to the label. Empty containers must be triple rinsed and rinsates added to the spray tank. DO NOT dispose of undiluted chemicals on site.
Crush or puncture cleaned, empty containers and dispose of container at an approved landfill or recycling facility. Avoid contamination of any water supply or stream with this product or empty container.

14. TRANSPORT INFORMATION:

Proper Shipping Name:	Not Classified as Dangerous Goods for Transport (Indole butyric acid)		
UN Number:	N/A	UN Hazard Class:	N/A
Packing Group:	N/A	Hazchem Code:	2 [Z]
Additional Information:	Do not carry more than one (1) litre of this product on a passenger service vehicle.		

15. REGULATORY INFORMATION:

This product DOES NOT have Approved Handler, Tracking, or Record Keeping Requirements.

This product shall NOT be applied onto or into water.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR000800 See <www.epa.govt.nz> for controls.
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P002989 See <www.nzfsa.govt.nz> for registration conditions.

16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.