

Material Safety Data Sheet

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

PRODUCT NAME: **Esteem**
MANUFACTURER: Kaken Pharmaceutical Co 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: USE: Fungicide

2. HAZARDS IDENTIFICATION:

6.5B; Harmful - may cause skin sensitization from prolonged skin contact. Avoid skin contact.
9.1C; Harmful to fish/aquatic organisms 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:
Polyoxin D zinc salt	146659-78-1	5	
Inerts		Balance	

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Remove any contact lenses. Seek medical attention if irritation persists.

SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. DO NOT scrub skin. Wash clothing before reuse.

INHALATION: If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

INGESTION: If swallowed, rinse mouth thoroughly with water then drink several glasses of water. DO NOT induce vomiting. Seek medical attention.

NOTES TO DOCTOR: No specific recommendations. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable, does not flash [>232 °C] HAZCHEM CODE: 2 [Z]
FLAMMABLE LIMITS: Not available
EXTINGUISHING MEDIA: Dry chemical, foam, carbon dioxide or water spray (fog).
THERMAL DECOMPOSITION PRODUCTS: Not known
SPECIAL FIRE FIGHTING METHODS: Use self-contained breathing apparatus.
UNUSUAL FIRE OR EXPLOSION HAZARDS:

6. ACCIDENTAL RELEASE MEASURES:

Spills may be slippery and should be cleaned up immediately. Clear area of unnecessary personnel. Use appropriate protective equipment.
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. It may be disposed of as an industrial waste in a manner acceptable to good waste management practice at an approved disposal facility and in compliance with all regulations.

7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.
Store in original container, tightly closed in a cool, well ventilated place and away from food, food related materials, animal feedstuffs, seed or fertilizer.
Wear eye protection and impervious gloves when handling and using. Wear other personal protective equipment appropriate to the situation when handling product.

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 required.

PROTECTIVE CLOTHING: When handling wear waterproof gloves, overalls and boots. Wash protective clothing daily after work.

VENTILATION: General (mechanical) room ventilation is considered satisfactory. Use in a well ventilated area.

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:	Dark brown viscous suspension		
BOILING POINT:	Not available	pH:	7
DENSITY:	1.05	SETTING POINT:	Not available
DECOMPOSITION TEMP:	Not available	AUTOIGNITION TEMP:	Not available
FLASHPOINT:	Not applicable	VAPOUR DENSITY:	Not available
EXPLOSION PROPERTIES:	Not explosive	VAPOUR PRESSURE:	Not available
SOLUBILITY:	Soluble in water.		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not available		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	Product is stable under normal temperatures and pressures.
MATERIALS TO AVOID:	Not known.
HAZARDOUS DECOMPOSITION	Not known.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 Rats: >5000 mg/kg
ACUTE DERMAL:	LD50 Rats: >5050 mg/kg
ACUTE INHALATION:	LC50 Rats: >2.2 mg/L
OTHER TOXICITY INFORMATION:	Skin sensitization - very faint erythema [superficial reddening], usually non-confluent in guinea pigs.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) fish;	>100 mg/L
Aquatic Toxicity: LC50 (48h) daphnia magna;	1.4 mg/L

Harmful to aquatic organisms with long lasting effects. Avoid contamination of any water supply with this product or empty container.
Product degraded by hydrolysis, no data on bioaccumulation.

13. DISPOSAL CONSIDERATIONS:

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved landfill.
Dispose of product only by using according to this label, or at an approved disposal facility.
Avoid contamination of any water supply or stream with product or empty container.

14. TRANSPORT INFORMATION:

Proper Shipping Name:	Not Classified as Dangerous Goods for Transport	(Polyoxin D zinc salt)
UN Number:	N/A	UN Hazard Class: N/A
Packing Group:	N/A	Hazchem Code: 2 [Z]
Additional Information:	Do not carry more than 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.

Esteem shall NOT be applied onto or into water and shall be applied via ground-based methods only.
It shall be applied at a maximum rate of 2 L [Esteem]/ha per application and must not be applied to the same area more than 6 times in any 365 day period. An interval of at least 7 full days must be observed before reapplication to the same area.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR101104 See <www.epa.govt.nz> for controls.
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P009155 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.