

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

NEPTUNE

SUPPLIER NAME: Zelam Limited
SUPPLIER CODE: None
SUPPLIER ADDRESS: Hudson Road, Bell Block, New Plymouth, New Zealand
SUPPLIER PHONE: +64 6 755 9234 SUPPLIER FAX: +64 6 755 1174
EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL
CHEMICAL FAMILY: Pyrimidinol USE: Agricultural fungicide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Bupirimate	41483-43-6	25	Class 6, 9.
Surfactants and excipients		balance	
Water	7732-18-5	50	

3. HAZARDS IDENTIFICATION:

Hazard Classes: 6.3B, 6.4A, 6.5B, 6.9B, 9.1A.
This substance is skin and eye irritant.
This substance is also a skin sensitiser.
Refer to Section 15 for ERMA Requirements.

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. 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. Wash clothing before reuse.
INHALATION: If ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.
INGESTION: If swallowed, DO NOT induce vomiting. Rinse the mouth with water. Take to hospital without delay.
NOTES TO DOCTOR: Treat Symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable.
FLAMMABLE LIMITS: Not applicable
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
THERMAL DECOMPOSITION PRODUCTS: Oxides of nitrogen carbon and sulfur.
SPECIAL FIRE FIGHTING METHODS: Addition of water may cause excessive foaming. Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff to enter drains.
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.
Warning this substance is very toxic to aquatic organisms. Avoid contamination of any water supply with this substance or empty container.

7. HANDLING AND STORAGE:

Store in a well ventilated place in properly labelled containers. Store below 35°C and above 0°C.
Store in original container, tightly closed away from foodstuffs. Wash protective clothing daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: Bupirimate exposure limit 10 mg/m³
EYE PROTECTION: Chemical goggles or face shield where splash may occur.
RESPIRATORY PROTECTION: Avoid inhalation of aerosols of this product. Wear face mask or chemical respirator with a filter.
PROTECTIVE CLOTHING: Wear impervious outer clothing - Vinyl apron, or tyvek overalls, gloves and gumboots.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: Light tan creamy liquid with a faint odour.
BOILING POINT: >100°C pH: 7 - 8
DENSITY: 1.05 SETTING POINT: <0°C
DECOMPOSITION TEMP: Not available AUTOIGNITION TEMP: 340°C

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FLASHPOINT: Not applicable VAPOUR DENSITY: Not available
EXPLOSION PROPERTIES: Not explosive VAPOUR PRESSURE: Bupirimate: 0.1 mPa (25°C)
SOLUBILITY: Solubility in water 22 mg/L pH 5.2, 25°C
OTHER DATA:
OCTANOL / WATER PARTITION COEFFICIENT: Bupirimate Kow log P = 3.9

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Unstable in acid conditions. Avoid storage temperatures greater than 35°C
MATERIALS TO AVOID: Avoid strong oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen sulfur and carbon.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: Acute oral > 4000 mg/kg (bupirimate)
ACUTE DERMAL: LD50 rats 4800 mg/kg
ACUTE INHALATION: Bupirimate: 10mg/m³
OTHER TOXICITY INFORMATION: Warning - May cause skin irritation, avoid skin contact.
Warning - May cause eye irritation, avoid contact with eyes.
Warning - May cause sensitiation from prolonged skin contact, avoid skin contact.
Warning - May cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Very toxic to fish. LC 50 (96 hr) for Rainbow trout: 1.4 mg/L.
Soil Toxicity: Not toxic to worms.
Terrestrial Vertebrates - Birds: Not toxic to birds.
Terrestrial Invertebrates - Bees: Not toxic to bees.
Warning - Very toxic to aquatic organisms. Avoid contamination of any water supply with this product or empty container.

13. DISPOSAL CONSIDERATIONS:

Triple rinse container and add residue to spray tank. Burn the container if circumstances, especially wind direction permit. Otherwise bury in a landfill. Avoid contamination of any water supply with chemical or empty container. Do not use the container for any other purpose. Do not allow contamination of any water supply with the empty container.

14. TRANSPORT INFORMATION:

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S UN Hazard Class: 9.
UN Number: 3082 Packing Group: III
Hazchem Code: 2X
Additional Information: Contains Bupirimate.

15. REGULATORY INFORMATION:

Record Keeping.
Records of this product must be made if more than 3 Kg is applied within 24 hours in a place where the substance is likely to enter the air or water and leave the place. The records must be kept for at least three years.

This product DOES NOT have Tracking Requirements and DOES NOT require an Approved Handler.

See the ERMA Website for more details: www.ermanz.govt.nz
ERMA Approval Code: HSR000080.
ACVM No: 7079.

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 products' properties.