



SAFETY DATA SHEET

MAVRIK AQUAFLO 240 EW INSECTICIDE

Section 1: Identification of the Substance and Supplier

Product name: MAVRIK AQUAFLO 240 EW
Chemical name of active Ingredient(s): Tau-fluvalinate
Use: Code no. R-10834.DPD
Insecticide

Supplier: ADAMA New Zealand Limited
Level1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand
P.O. Box 1799, Nelson New Zealand.

Telephone +64 3 5438275 Fax: +64 3 5438274

Emergency Telephone: 0800 POISON (0800 764 766)

Section 2: Hazards Identification

Hazard Classifications: 6.1D, 6.9B, 9.1A, 9.3C

Most important hazards: TOXICITY
Warning –
May be harmful if swallowed, inhaled or absorbed through the skin.
May cause kidney and skin damage from repeated oral exposure at high doses.

Avoid skin contact or inhalation.

ECOTOXICITY
Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.
Harmful to terrestrial vertebrates.

Section 3. Composition/Information on Ingredients

Substance/preparation	Preparation				
Information on hazardous ingredients *					
Common name	CAS No.	Value	EC Number	Symbol	R-Phrases
Tau-fluvalinate	102851-69-9	24%		Xn,N	R22-38-50/53
1,2-ethanediol	000107-21-1	1-10%	203-473-3	Xn	R22

- Occupational Exposure Limit(s), if available, are listed in section 8

Section 4: First-Aid Measures

First-aid measures: Remove victim from area of exposure. Wash off remaining material with plenty of water.

Inhalation: Remove victim to fresh air. Consult a doctor in the event of any complaints.

Ingestion: Do NOT induce vomiting. Get medical attention immediately and show this container or label, administer active carbon in a large amount of water. Never give anything by mouth to an unconscious person.

Skin contact: Remove contaminated clothing. Wash away remainder with water and Soap followed by a warm water rinse. Consult a doctor in the event of any complaints.

Eye contact: Wash out with plenty of water with the eyelid held wide open for at least 5 minutes. Consult eye specialist immediately.

Notes to a physician: There is no specific antidote. Treat symptomatically.
If ingested perform gastric lavage and administer activated charcoal.

Protection of first-aiders: Use appropriate protection (see section 8).



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Section 5: Fire-Fighting Measures

Extinguishing media

Suitable: Dry chemical, water spray, foam, carbon dioxide.
Not suitable: Direct water jets

Special Procedures: Fight fires from protected location. Dike fire control water for later disposal. Prevent all discharge into the environment.

Unusual fire/explosion

Hazards: Combustion products are toxic and/or irritant. Measures must be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollable.

Hazard thermal: Toxic and or irritating gas.

Protection of fire-fighters: Wear proper protective equipment. Self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions: Wear appropriate protective clothing. (see section 8)

Environmental precautions: Do not discharge into drains or the environment.

Methods for cleaning up: Collect and contain as much free liquid as possible. Absorb remainder in sand or other inert material. Place into a clean container and cover the container loosely for later disposal.

Section 7: Handling and Storage

Handling: Keep out of reach of children. Do not breathe fumes. Avoid contact with skin and eyes. Do not eat, drink or smoke while using. Wear suitable protective clothing, nitrile rubber gloves, and safety glasses or face shield.

Storage: Store in original, unopened container in cool, dry place, well ventilated place, out of direct sunlight and away from stockfeed or foodstuffs. (< 40°C)

Packaging: Co extruded polyethylene bottles. Drums with polyethylene liner

Section 8: Exposure Controls/Personal Protection

Engineering measures: Ventilation required.

Hygiene measures: When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

Occupational Exposure Limits: 1,2-ethanediol
TLV 100 mg/m³; 39.4 ppm

Common name:

Personal protective equipment:

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Skin and body: Wear suitable protective clothing. Chemical resistant boots.

Hands: Nitrile rubber gloves.

Eyes: Safety goggles or Chemical goggles.

Other information: Wash hands thoroughly after handling.

Section 9: Physical and Chemical Properties

Physical state: Liquid
Colour: White - yellowish

Odour: Characteristic



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Density:	1.07 – 1.11 g/cm ³ (20°C)
Solubility in water:	Miscible
Flash point [°C]:	100 (closed cup)
pH:	5.0 – 6.5 (1% solution)
Flammability:	Not flammable (Combustible)
Explosion properties:	Not explosive

Section 10: Stability and Reactivity

Physico-chemical Stability:	Stable under normal conditions
Conditions to avoid:	Avoid temperatures above 40°C
Materials to avoid:	Avoid contact with: strong bases and strong acids.
Hazardous reactions:	Not known
Hazardous decomposition products:	Emits toxic fumes

Section 11: Toxicological Information

Preparation

Acute toxicity - Oral:	LD ₅₀ (rat) >5,000 mg/kg (male & female)
Acute toxicity - Dermal:	LD ₅₀ (rat) >2,000 mg/kg
Acute toxicity – Inhalation:	LC ₅₀ (rat) 5.5 mg/L/4h
Skin irritation:	Not irritating (rabbit).
Eye irritation:	Not Irritating (rabbit).
Sensitization:	Non Sensitizer (Guinea-pig)

Section 12: Ecological Information

Ecological effects information:	Very toxic to aquatic organisms
96 H-LC50 – fish (rainbow trout) [mg/l]:	0.024
48 H-LC50 – Daphnia magna [mg/l]:	0.011
72 H-EC50 Algae [mg/l]:	>100

Section 13: Disposal Considerations

Methods of disposal:	Container Disposal - Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle. Avoid contamination of any water supply with product or empty container.
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Section 14: Transport Information

UN Number	3082
Proper shipping name	Environmentally hazardous substance, Liquid, N.O.S, (tau-fluvalinate)
DG Class	9
Packing Group	III
Hazchem Code	2X
Marine Pollutant	No
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National transport regulations: Do not carry this product on a passenger service vehicle.

Segregation: Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.



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Section 15: Regulatory Information

New Zealand Regulatory Information:

NZFSA Approval:

Registered pursuant to the ACVM Act 1997. No P7278
See www.nzfsa.govt.nz/acvm for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval No. HSR000316
See www.ermanz.govt.nz for registration conditions.

HSNO Classifications:

6.1D, 6.9B, 9.1A, 9.3C



ECOTOXIC

APPROVED HANDLER - this product must be under the care of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.

RECORD KEEPING: Records of use must be kept under certain circumstances – see The New Zealand Standards for Management of Agrichemicals (NZS8409) for details.

Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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HISTORY

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