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This revision issued: May, 2019



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **MAVRIK AQUAFLO 240 EW**

Chemical Name of Active Ing: Tau-fluvalinate Product Use: Insecticide

Refer to Section 15 Restriction of Use:

ADAMA New Zealand Ltd New Zealand Supplier: Level 1/93 Bolt Road Address:

> Tahunanui, Nelson +64 3 543 8275 +64 3 543 8274

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 28 May 2019

Section 2. **Hazards Identification**

This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017

EPA Approval No: HSR000316

Pictograms

Telephone:

Fax Number:







Toxic

Chronic

Ecotoxic

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1A	H400/H410	Very toxic to aquatic life with long lasting effects.	Aquatic Acute 1/Aquatic Chronic 1
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe dust.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

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P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container.

Section 3. Composition / Information on Ingredients

Ingredients	Wt %	CAS NUMBER.
Tau-fluvalinate	24%	102851-06-9
1,2-ethanediol	1-10	107-21-1
Other non-hazardous ingredients	To bal	-

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Immediately flush the contaminated eye(s) with lukewarm, gently flowing

water for 15 minutes or until the product is removed, while holding the

eyelid(s) open. If eye irritation persists: Get medical advice.

If on Skin 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.

If Swallowed If swallowed, do NOT induce vomiting. Wash out mouth thoroughly with

water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs.

Call a POISON CENTER or doctor/physician if needed.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes

difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Harmful if swallowed.

Inhalation:Not applicable.Skin:Not applicable.Eye:Not applicable.

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Chronic: May cause damage to organs through prolonged or repeated exposure.

Section 5. Fi	e Fighting Measures
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Hazard Type	Non Flammable/Combustible.
Hazards from combustion products	Toxic and or irritating gas.
Suitable Extinguishing media	Dry chemical, water spray, foam, carbon dioxide. Do not use direct water jets.
Precautions for firefighters and special protective clothing	Wear proper protective equipment. Self-contained breathing apparatus. Measures must be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollable.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

Wear appropriate protective clothing. (see section 8). Evacuate all unnecessary personnel.

Environmental precautions

In the event of a major spill, prevent spillage from entering into drains and water courses.

Methods and material for containment and 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. Dispose as per Section 15.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not breathe fumes.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Avoid skin and eye contact.
- Wear suitable protective clothing, nitrile rubber gloves, and safety glasses or face shield

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store in original, unopened container in cool, dry place, well ventilated place, out of direct sunlight and away from stockfeed or foodstuffs. (< 40°C)

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL
Substance ppm mg/m3 ppm mg/m3

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

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Engineering Controls

Ventilation required.

Personal Protection Equipment



Eyes	Safety goggles.	
Hands and	Nitrile rubber gloves. Wear suitable protective clothing. Chemical resistant	
Skin	boots.	
Respiratory	In case of insufficient ventilation, wear suitable respiratory equipment.	
General	When handling do not eat, drink or smoke. Wash hands thoroughly after	
	handling. Wash clothing separately before re-use.	

Section 9 Physical and Chemical Properties

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Appearance	White - yellowish liquid
Odour	Charasteristic
Odour Threshold	Not applicable
pH	5.0 – 6.5 (1% solution)
Boiling Point	Not applicable
Melting Point	Not applicable
Flash Point	100°C (closed cup)
Flammability	Not flammable
Upper and Lower	Not applicable
Exposure Limits	
Vapour Pressure	Negligible
Density	1.07 - 1.11 g/cm3 (20∘C)
Solubilities	Miscible
Coeff Oil/water	Not applicable
distribution:	
Auto-ignition	Not applicable
Temperature	
Kinematic viscosity	Not applicable
mm2/s 40 °C	
Particle Characteristics	Not applicable
Volatiles	No specific data.

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Reactivity	None known.
Conditions to Avoid	Avoid temperatures above 40°C
Incompatible Materials	Avoid contact with: strong bases and strong acids.
Hazardous Decomposition	Emits toxic fumes.
Products	

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed.
Dermal	Not applicable
Inhalation	Not applicable
Skin	Not applicable
Eye	Not applicable

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Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive	Not applicable.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated
	exposure.

Preparation

Acute toxicity - Oral: LD50 (rat) >5,000 mg/kg (male & female)

Acute toxicity - Dermal: LD50 (rat) >2,000 mg/kg
Acute toxicity - Inhalation: LC50 (rat) 5.5 mg/L/4h
Skin irritation: Not irritating (rabbit).
Eye irritation: Not Irritating (rabbit).

Sensitization: Non Sensitizer (Guinea-pig)

Section 12. Ecotoxicological Information

HSNO Classes: 9.1A = Very toxic to aquatic life with long lasting effects.

9.3C = Harmful to terrestrial vertebrates.

Ecological effects information:

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

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available
Precautions	Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method: 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.

Precautions and methods to avoid:

Avoid contamination of any water supply with product or empty container.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road and Rail Transport

UN No: 3082 Class-primary 9 Packing Group III

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Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S, (tau-fluvalinate)

Air Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S, (tau-fluvalinate)

Marine Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S, (tau-fluvalinate)

Marine Pollutant Yes

Special Provisions:

If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 **Regulatory Information**

This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR000316

HSNO Classification: 6.1D(oral), 6.9B, 9.1A, 9.3C

Refer to EPA website www.epa.govt.nz for controls document - HSR000316

HSW (HS) Regulations 2017	Trigger Quantity/Regulation		
HSW(Hazardous substance) Regulations Part 4	HSW Reg 4.5 - 4.6		
Certified Handlers and supervision and training	Information, instruction, training and		
of workers	supervision.		
Location Certificate	Not required		
Signage Trigger Quantities (Schedule 3)	100Kg (9.1A)		
Emergency Response Plan (Schedule 5)	100Kg (9.1A)		
Secondary Containment (Schedule 5)	100Kg (9.1A)		
Tracking (Schedule 26)	Not required		
HSNO Additional Controls (Restrictions of use)			
77A	The substance must not be applied onto or		
	into water.		
Hazardous Property Controls Notice 2017			
HPC Notice Part 4 Clause 47	Equipment for class 0 substances must be		
TIPE Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate		
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators		
HPC Notice Part 3	Hazardous substances in a place other than		
	a workplace		
HPC Notice Part 4 Subpart A	Site and storage controls for class 9		
	substances		
HPC Notice Part 4 Subpart C	Qualifications required for application of		
	class 9 pesticides		
ACVM Act and Regulations			
ACVM Approval No	P7278		
See <u>www.foodsafety.govt.nz</u> for registration			
controls			

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Section 16	Other Information
Glossary	
EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC50	Lethal concentration that will kill 50% of the test organisms
	inhaling or ingesting it.
LD50	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible
	authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been issued by TCC (NZ) Ltd and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the ADAMA, if further information is required.

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