



MATERIAL SAFETY DATA SHEET

Nufarm Number: 03556

FINAL 19/08/02

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MAVRIK® FLO

HEALTH HAZARD INFORMATION

Acute Effects

Eye

Slightly irritating.

Skin

Slightly irritating.

Inhaled

No data available.

Swallowed

No data available.

Other Health Effects

None known.

Chronic Effects

Tau-fluvalinate technical has been tested on laboratory animals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects were observed.

First Aid

Eye

Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.

Skin

Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.

Inhaled

Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.

Swallowed

Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.

Other First Aid

None known.

Advice to Doctor

No specific antidote is available. Treat symptomatically.

Toxicity Data

Acute oral LD ₅₀ (rat)	>2000mg/kg
Acute dermal LD ₅₀ (rat)	>2000mg/kg
Acute inhalation LC ₅₀ (rat, 4h)	>5.5mg/L/4hr (technical tau-fluvalinate)
Eye irritant (rabbit)	Non irritant
Skin irritant (rabbit)	Non irritant
Skin sensitisation (rat)	Non-sensitising (technical tau-fluvalinate)

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PRECAUTIONS FOR USE

Exposure Standards

No exposure standards have been established for this product.
WES TWA for ethylene glycol = ceiling 50ppm (127mg/m³)

Engineering Controls

For preparation and application of the spray mixture natural ventilation is adequate.
Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower.

Personal Protection

Avoid all personal contact.
Wear cotton overalls, nitrile rubber gloves, hat, boots, safety goggles, half mask respirator with organic vapour cartridge + dust/mist pre-filter.
Do not enter treated areas without protective clothing until the spray has dried.
Wash protective clothing before storage or reuse.
Wash thoroughly after handling and before eating, drinking or smoking.

Flammability

Non flammable, non combustible.

Environment

Tau-fluvalinate technical is extremely toxic to fish and other aquatic organisms and may cause long-term adverse effects in the aquatic environment.

LC₅₀(96h), bluegill sunfish = 0.006mg/L
LC₅₀(96h), rainbow trout = 0.003mg/L
EC₅₀(72h), algae = >100mg/L
LC₅₀(48h), daphnia = 0.011 mg/L

Tau-fluvalinate technical is of low toxicity to birds

LD₅₀, bobwhite quail = >2510mg/kg

Tau-fluvalinate technical is of low toxicity to bees.

Do not discharge into drain or the environment.

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SAFE HANDLING INFORMATION

Storage and Transport

ROAD TRANSPORT:	Environmentally hazardous substance, liquid, N.O.S. (tau-fluvalinate 24%) UN#3082 Class 9	Hazchem 2X Packaging group III
SEA TRANSPORT:	Environmentally hazardous substance, liquid, N.O.S. (tau-fluvalinate 24%) UN#3082 Class 9	IMDG code page 150 Packaging group III

STORAGE: Store in original container in a cool, dry, ventilated place away from direct heat or direct sunlight. Store away from insecticides, foodstuffs, children and animals. Keep container sealed when not in use.

Note: when stored in high temperatures for prolonged periods very hazardous gases may be produced in the product container. Inhalation of these vapours is extremely dangerous.

Packaging and Labelling

1L HDPE jerrycan
POISON – keep out of reach of children
Marine pollutant

Spills and Disposal

Spills:	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
Product Disposal:	To avoid disposal all attempts should be made to utilise the product completely in accordance with it's registered use. Dilute unusable product according to the label and pour onto fallow land. Prevent the product from entering natural water sources.
Container Disposal:	Triple rinse container and add residue to spray tank while it is filling. Burn empty container if wind direction permits, otherwise crush and bury in landfill.

Reactivity Data

Stable under normal conditions.
Avoid extreme heat above 40°C, strong acids and bases.
Thermal decomposition products may produce toxic and/or irritating gas.
When product is stored in high heat for prolonged periods, very low levels of hydrogen cyanide may be released in the head-space of the closed container.



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Fire/Explosion Hazard

Wear full protective clothing and self contained breathing apparatus.

Extinguishing media: Water spray, foam, dry chemical, carbon dioxide. DO NOT use direct water jets.

Dike fire control water for later disposal. Prevent all discharge into the environment.

ADDITIONAL INFORMATION

Supersedes: 04/12/01

CONTACT POINTS

NORMAL HOURS: Emergency Response Co-ordinator: (649) 268 2920

24Hr Tollfree Emergency No: Phone: 0800 651 911

IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE

24Hr Emergency No: National Poisons Centre Phone: 0800 764 766