



Material Safety Data Sheet

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Infosafe No. NU0GW Issue Date : February 2003 ISSUED by NUFARM

Product Name : **Striker Herbicide**

Classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

Address 103-105 Pipe Road Laverton North
Victoria 3026 Australia

Emergency Tel. 24hr 1800 033 498

Tel/Fax Tel: (03) 9282-1000 Fax: (03) 9282-1001

Other Information

IDENTIFICATION

Product Code 0632

Product Name Striker Herbicide

Proper Shipping Name None Allocated

UN Number None Allocated

DG Class None Allocated

Packing Group None Allocated

Hazchem Code None Allocated

Poisons Schedule S5

Product Use For selective weed control of certain broadleaf and grass weeds as per the Directions for Use table.

Physical Data

Appearance Amber liquid with an aromatic odour.

Melting Point N/A

Boiling Point 220-290°C (for solvent)

Vapour Pressure <1x10⁻⁷ mmHg @ 25°C (Oxyfluorfen)

Specific Gravity 1.08 @ 20°C

Flash Point 71°C

Explosion Data 0.8% LEL, 7% UEL for solvent

Other Properties

Volatile Component N/A

Autoignition Temp. >450°C (solvent)

Vapour Density N/A

Form Liquid

Decomposition Temperature Not known, stable at 100°C

Other Information Emulsifies in water.

Ingredients

Ingredients	Name	CAS	Proportion
	N-Methyl-2-pyrrolidone	872-50-4	100 %
	Oxyfluorfen	42874-03-3	240 G/L
	Solvent Naphtha	64742-94-5	612 G/L
	Emulsifiers		BALANCE

HEALTH HAZARD INFORMATION

Health Effects



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Acute - Swallowed The active ingredient in the concentrate is of low toxicity. However, the solvent can be of concern if vomiting has occurred; aspiration of the vomit into the lungs can cause mild to severe pulmonary injury and possibly death.

Acute - Eye The concentrate may cause irritation and pain.

Acute - Skin The concentrate is not considered a serious toxic hazard, but may cause irritation. Prolonged or repeated contact with the concentrate can cause defatting of the skin leading to secondary dermatitis.

Acute - Inhaled High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, can be anaesthetic and may have other central nervous system effects. Avoid working in, or inhaling spray mist.

Chronic Repeated over exposure can cause liver and kidney damage.

First Aid

Swallowed DO NOT induce vomiting.
Give plenty of water and seek medical help immediately and show the container or label. If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26.

Eye Irrigate with copious amounts of water for at least 15 minutes with eyelids held open.

Skin Wash thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.

Inhaled Remove victim to fresh air until recovered. If breathing has stopped, give artificial respiration.

Advice to Doctor

Advice to Doctor Treat symptomatically mainly for hydrocarbon solvent ingestion. If product has been aspirated into the lung (e.g. from vomiting), consider the possibility of chemical pneumonitis.

Other Health Hazard Information

PRECAUTIONS FOR USE

Exposure Limits Airborne Exposure Limits:
No exposure limit has been assigned to this material by NOHSC Australia. However, the following Standards may apply:

	TLV/TWA	STEL
Oxyfluorfen	0.2 mg/m ³ (recommended)	1.6 mg/m ³ (recommended)
N-methyl-2-pyrrolidone	25 ppm (skin)	75 ppm (skin)
Solvent, Naptha, petroleum	25 ppm	-

Eng. Controls Natural ventilation only required. When handling the concentrate in confined spaces it is advisable to use some forced ventilation to avoid build-up of solvent vapours that may make working conditions unpleasant.

Personal Protection

Protective Equip. Avoid contact of product with eyes or skin. Do not inhale vapour or spray mist. When preparing product for use, wear cotton overalls buttoned to the wrist and neck, washable hat, elbow length PVC gloves and face shield. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing, gloves and face shield. Wash concentrate from skin and eyes immediately.

Flammability

Fire Hazards Combustible. C1.



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SAFE HANDLING INFORMATION

Storage and Transport

Storage and Transport STORAGE:

Store above 0°C

Keep container tightly sealed and do not store with foods, seeds, fertilisers or other pesticides if cross contamination can occur.

TRANSPORT:

Considered non-hazardous for transport by the Australian Code for the Transport of Dangerous Goods by Road or Rail.

SEA TRANSPORT:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S.

UN NO. 3082 Class 9 Packaging Group III

Proper Shipping Name

None Allocated

Spills and Disposal

Spills & Disposal

Contain spill and absorb with sand or other solid absorbent. Collect in sealed open-top containers for disposal.

Prevent from entering drains, sewers, waterways.

Triple rinse empty containers and add rinsate to spray tank. Puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of the concentrate is not acceptable.

Fire/Explosion Hazard

Fire/Explos. Hazard

If involved in a fire, products of combustion may include hydrogen fluoride, oxides of nitrogen and chlorinated compounds.

Fire fighting: The use of breathable air apparatus is indicated if fighting fires that involves this product, especially if fighting in confined spaces.

Extinguishing media: Alcohol foam, dry chemical, carbon dioxide, water fog.

Contain fire water and keep from entering waterways, sewers, drains etc.

Hazardous Reaction

Store away from strong oxidising agents.

Polymerisation is not possible.

Hazchem Code

None Allocated

OTHER INFORMATION



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Toxicology

Formulated product:
Acute LD50 oral (rat) >2,500 mg/Kg
dermal (rabbit) >2,000 mg/Kg
Oxyfluorfen:
Toxicity to fish:
LC50 (96hrs) (rainbow trout) 0.41 mg/L
(bluegill sunfish) 0.2 mg/L
(channel catfish) 0.4 mg/L
(grass shrimp) 32 ug/L
(eastern oyster) 95 ug/L
(fiddler crab) 1000 mg/L
(freshwater clam) 9.6 mg/L
Toxicity to birds:
LC50 (mallard duck) >5,000 mg/kg (8 day feeding)
LC50 (bobwhite quail) >5,000 mg/kg (8 day feeding)
LD50 acute oral (bobwhite quail) >2,150 mg/kg
Toxicity to bees: Not toxic to bees.
The Australian Acceptable Intake (ADI) of Oxyfluorfen for a human is 0.025 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2.5mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.
(Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, September 2002).

Environ. Protection

Marine pollutant.
Dangerous to fish.
Do NOT spray in high winds.
Do not contaminate dams or waterways with product or empty containers.
The product is a total herbicide. After use, wash out equipment thoroughly and ensure that it is clean before using the equipment for any other purpose

Pkg. & Labelling

CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING
The product has been assessed according to the Worksafe criteria for classifying hazardous substances and is classified as hazardous.
Risk Phrases:
R36/38 Irritating to eyes and skin.
R65 Harmful: May cause lung damage if swallowed.
Safety Phrases:
S2 Keep out of the reach of children
S20/21 When using do not eat, drink or smoke.
S24/25 Avoid contact with skin and eyes.
S36/37/38 Wear suitable protective clothing, gloves and eye/face protection.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

CONTACT POINT

Contact

Normal Hours: Mr Volker Maier Phone: (03) 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498
...End Of MSDS...