



Material Safety Data Sheet

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Infosafe No. 3NU19 Issue Date : February 2003 ISSUED by NUFARM

Product Name : **Comet 200 EC 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 0688

Product Name Comet 200 EC 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 the control of a wide range of Broadleaf weeds in Fallow, Lucerne, Maize, Millets, Pastures, Poppies, Sorghum, Sugar Cane, Sweetcorn and Winter Cereals. Also for the control of Woody Weeds in Agricultural non-crop areas, commercial and industrial areas, Forests, Pastures and Rights of way, as specified in the Directions for Use.

Physical Data

Appearance Amber liquid

Boiling Point ~200°C (solvent)

Vapour Pressure 1.35x10⁻³mPa@20°C Fluroxypyr 7x10⁻⁴mPa@20°C Solvent

Specific Gravity 0.982

Flash Point 85°C (closed cup)

Flamm. Limit LEL Not flammable

Explosion Data 0.6 - 7%

Other Properties

Autoignition Temp. > 450°C

pH Value 5-7

Form Liquid

Other Information Solubility in water: 0.9ppm Fluroxypyr-meptyl, 91ppm Fluroxypyr (20°C). This product forms an emulsion with water.

Ingredients

Ingredients	Name	CAS	Proportion
	Solvesso 150	64742-94-5	586 g/L
	Fluroxypyr-meptyl (present as methyl heptyl ester)	81406-37-3	200 g/L
	Other non-hazardous ingredients		Balance

HEALTH HAZARD INFORMATION

Health Effects



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Acute - Swallowed	The concentrated product is of low toxicity. The active ingredient is non-hazardous according to the Worksafe Criteria. If swallowed and if vomiting occurs, entry of the solvent into the lungs presents a risk, possibly resulting in chemical pneumonitis.
Acute - Eye	If the concentrate enters the eye, moderate eye irritation may result due to the solvent.
Acute - Skin	The active ingredient is of low toxicity via skin absorption. However, prolonged or repeated contact with the solvent may cause defatting of the skin which may result in secondary dermatitis.
Acute - Inhaled	The components of the product are of very low volatility, hence this product is not an inhalation risk at normal temperatures. The inhalation of spray should be avoided.
Chronic	No chronic effects have been documented.

First Aid

Swallowed	Rinse mouth thoroughly with water immediately. If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
Eye	Irrigate for 15 minutes with copious quantities of water with eyelids held open.
Skin	Remove contaminated clothing and wash before re-use. Wash affected areas thoroughly with soap and water.
Inhaled	Remove victim to fresh air. Give artificial resuscitation if breathing has stopped.

Advice to Doctor

Advice to Doctor Treat symptomatically.

Other Health Hazard Information

PRECAUTIONS FOR USE

Exposure Limits	No exposure standards have been set for Fluroxyppyr. The supplier of the solvent (Solvesso 150) recommends an exposure limit of 100mg/m ³ (17ppm) TWA.
Eng. Controls	Use in a well ventilated area only. No special ventilation required.

Personal Protection

Protective Equip.	Avoid contact with eyes and skin. When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves, a face shield or goggles. Wash hands after use, and before eating, drinking or smoking. After each day's use, wash face shield or goggles and contaminated clothing.
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Flammability

Fire Hazards Combustible C1.

SAFE HANDLING INFORMATION

Storage and Transport



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Storage and Transport STORAGE:

Store in the closed, original container in a dry, well ventilated area out of direct sunlight. Store in a safe place away from foodstuffs, seeds, or fertiliser. Store out of the reach of children.

TRANSPORT:

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

Proper Shipping Name

None Allocated

Spills and Disposal

Spills & Disposal Contain spill and absorb with sand or other inert absorbent. Prevent from entering drains, waterways and sewers. Collect in sealable open top containers for disposal.

Triple rinse containers, add rinsate to the spray tanks, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulation. On-site disposal of concentrate is not acceptable.

Fire/Explosion Hazard

Fire/Explos. Hazard Extinguishing media: Dry chemical, water spray, foam, carbon dioxide.

Hazardous products on combustion could include: Chloride compounds, fluoride compounds and nitrogen oxides.

Protective Clothing: Self-contained breathing apparatus and total protection required in enclosed areas.

Hazardous Reaction Materials to avoid: Oxidising agents, acids and alkali.

Hazardous polymerisation not possible.

Hazchem Code

None Allocated

OTHER INFORMATION

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Toxicology

Fluroxypyr meptyl:

Acute oral LD50(rat) >5000 mg/kg

Acute dermal LD50(rat) >2000 mg/kg

Acute inhalation LD50(rat) >5.2mg/L (4 hours)

Skin irritation Moderately irritating (rabbit)

Eye irritation Moderately irritating (rabbit)

Sensitisation Non sensitiser (giunea-pig)

Chronic toxicity NOEL: rat=80mg/kg/day, mice=320mg/kg/day

Fluoxypyr meptyl has not been classified as a carcinogen. It is not mutagenic and has not been shown to be teratogenic in animal testing.

Toxicity to fish:

LC50 (96hrs) rainbow trout >100mg/L (Fluroxypyr)

golden orfe >100mg/L (Fluroxypyr)

rainbow trout >0.9mg/L solubility limit (Fluroxypyr-meptyl)

golden orfe >0.9mg/L solubility limit (Fluroxypyr-meptyl)

Daphnia magna

EC50(48hr) >100mg/L (Fluroxypyr)

>0.9mg/L solubility limit (Fluroxypyr-meptyl)

Green algae

EC50(96hr) >100mg/L (Fluroxypyr)

>0.9mg/L solubility limit (Fluroxypyr-meptyl)

Birds

Bobwhite quail LD50 >2000 mg/kg (Fluroxypyr-meptyl & Fluroxypyr)

Mallard duck LD50 >2000 mg/kg (Fluroxypyr-meptyl & Fluroxypyr)

Bees

Oral LD50 >100ug/bee (Fluroxypyr-meptyl)

Contact LD50 >100ug/bee (Fluroxypyr-meptyl)

Contact LD50 >25ug/bee (Fluroxypyr)

The Australian Acceptable Daily Intake(ADI) of fluoxypyr for a human is 0.2 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 20 mg/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, TGA, 'ADI List', September 2002).

Environ. Protection

Do not spray in high winds.

Do not contaminate dams, waterways or sewers with the product or used containers. Do not use this container for any other purpose. Wash out the container and dispose of it in an approved manner.

The product is not persistent in soil, half life in soil is 5-7 days, degradation is due to micro-organisms.

Pkg. & Labelling

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

The product has been assessed according to Worksafe criteria for classifying hazardous substances and is classified as hazardous:

Risk Phrases:

R65 Harmful: May cause lung damage if swallowed.

Safety Phrases:

S2 Keep out of reach of children.

S23 Do not breathe vapour.

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



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...End Of MSDS...