



# Material Safety Data Sheet

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Infosafe No. NU06B Issue Date : July 2004 ISSUED by NUFARM

Product Name : CONVOY DF Herbicide

Classified as hazardous according to criteria of NOHSC

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product Name** CONVOY DF Herbicide  
**Product Code** 0290  
**Product Use** For the control of many broadleaf weeds and annual grasses in cotton as per the Directions for Use table.  
**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  
**Telephone/Telex Number** Tel: (03) 9282-1000 Fax: (03) 9282-1001  
**Product Type** Group C Herbicide  
**Other Information** This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Solid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Stabilisers and surfactants		5-10 %w/w
	Prometryn	7287-19-6	440 g/Kg
	Fluometuron	2164-17-2	440 g/Kg

## 3. HAZARDS IDENTIFICATION

Irritating to eyes.  
**Other Information** Poisons Schedule 5

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person to fresh air until recovered.  
If symptoms develop or persist, seek medical advice.  
**Ingestion** 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 (Aust).  
Make every effort to prevent vomit from entering the lungs by careful placement of the patient.  
**Skin** Wash affected areas thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.  
**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
**Advice to Doctor** Treat symptomatically.  
Remove by gastric lavage and catharsis. Maintain blood pressure and airway.  
Give oxygen if respiration is depressed. There is no specific antidote.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media** Water fog, foam, carbon dioxide or dry chemical.  
Avoid strong water jets - airborne dusts may form a flammable dust cloud.  
**Hazardous Combustion Products** Combustible solid.  
If involved in a fire, it will emit oxides of nitrogen, oxides of carbon, oxides of sulphur and possibly fluorine compounds.  
**Protective Equipment** Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

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**Other Information** Prevent fire water from entering drains or water bodies.

## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal** Recover the product by sweeping up or vacuuming without raising dust.  
Collect spilled material and waste in sealable open-top type containers for disposal.

**Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.

## 7. HANDLING AND STORAGE

**Storage** Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.

**Other Information** Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**Exposure Limits** No exposure standards have been established for this product by Worksafe Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m<sup>3</sup>.

**Respiratory Protection** If dusts are present, wear a dust mask.

**Personal Protective Equipment** It is good practice to wear suitable personal protective equipment (PPE).  
When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.

**Eng. Controls** Handle in well ventilated areas, generally natural ventilation is adequate.  
Avoid generating and inhaling dusts.

**Hygiene Measures** 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 and safety equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Solid, granules, pale tan colour

**Solubility in Water** Disperses in water.  
Solubility in water is low: fluometuron 105 ppm; prometryn 48 ppm.

**Boiling Point** N/A

**Specific Gravity (H<sub>2</sub>O=1)** N/A

**Vapour Pressure** 0.165 mPa @ 25°C for prometryn;  
0.125 mPa @ 25°C for fluometuron.

**Flash Point** N/A

**Flammability** Combustible

## 10. STABILITY AND REACTIVITY

**Hazardous Polymerization** Hazardous polymerisation is not possible.

**Hazardous Reaction** Keep away from strong oxidising agents.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation** May cause irritation to mucous membranes.

**Ingestion** The concentrate is of low toxicity if swallowed.  
However, swallowing large amounts may cause nausea and vomiting.

**Skin** Prolonged contact with the concentrate may cause irritation.

**Eye** May irritate the eyes.



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**Chronic Effects** Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of fluometuron.

**Acute Toxicity - Oral** LD50 (rat) 3832 mg/kg for fluometuron  
LD50 (rat) >2000 mg/kg for prometryn

**Acute Toxicity - Dermal** LD50 (rat) >2000 mg/kg for fluometuron  
LD50 (rabbit) >2020 mg/kg for prometryn

**Acute Toxicity - Inhalation** LC50 (rat) (4hr) >5.2 mg/l for prometryn

**Eye Irritation** The product is an eye irritant.

**Skin Irritation** Mild skin irritant.

**Skin Sensitisation** Product is not a skin sensitiser.

**Human Effects**

**Other Information** The Australian Acceptable Daily Intake (ADI) for fluometuron for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2 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, 'ADI List', TGA, August 2003).

The Australian Acceptable Daily Intake (ADI) for prometryn for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 3 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, 'ADI List', TGA, August 2003).

## 12. ECOLOGICAL INFORMATION

**Other Precautions** Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

**Environ. Protection** Spray drift can cause damage, read the label for more information.

**Persistence / Degradability** Both active ingredients persist for some time in the soil.  
Fluometuron will biodegrade to loose about 50% of its strength in the soil in 60 - 75 days , depending on soil conditions.  
Prometryn will biodegrade in the soil in 30 - 90 days, depending on soil conditions.

**Acute Toxicity - Fish** LC50 (96 hr) for rainbow trout is 47 mg/l for fluometuron  
LC50 (96 hr) for rainbow trout is 5.5 mg/l for prometryn

**Acute Toxicity - Daphnia** LC50 (48 hr) for daphnia is 23 mg/l for fluometuron.  
LC50 (48 hr) for daphnia is 13 mg/l for prometryn.

**Acute Toxicity - Other Organisms** Not toxic to birds.  
The following data is for the active ingredient, fluometuron.  
LC50 (96hr) for mallard ducks is 2974 mg/l  
The following data is for the active ingredient, prometryn.  
LC50 (96hr) for mallard ducks is 4640 mg/l  
Bees: Not toxic to bees. LD50 >99 µg/bee.

## 13. DISPOSAL CONSIDERATIONS

**Product Disposal** On site disposal of the concentrated product is not acceptable.  
Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemCollect).



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**Container Disposal** Shake the last amount of product from the bag into application equipment.  
Wash out the container and dispose of it in a manner which is approved under local regulations.  
Puncture or shred and bury containers in local authority landfill.  
If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.  
Empty containers and product should not be burnt.

## 14. TRANSPORT INFORMATION

**U.N. Number** None Allocated

**Proper Shipping Name** None Allocated

**DG Class** None Allocated

**Hazchem Code** None Allocated

**Packing Group** None Allocated

**Storage and Transport** Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## 15. REGULATORY INFORMATION

**Risk Phrase** R36 Irritating to eyes.

**Safety Phrase** S13 Keep away from food, drink and animal feeding stuffs.  
S20/21 When using, do not eat, drink or smoke.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Poisons Schedule** S5

**Hazard Category** Irritant

**Packaging & Labelling** CAUTION

KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

**Contact Person/Point** Normal Hours: Mr Volker Maier Phone: (03) 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions Highlighted** The MSDS was reviewed. Minor changes were made to the information. The MSDS is now issued in a 16 header format.  
...End Of MSDS...