



Material Safety Data Sheet

Infosafe No. 3NUAW Issue Date : April 2006 ISSUED by NUFARM

Product Name : INTERVIX® Herbicide

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	INTERVIX® Herbicide
Product Code	0502
Product Type	Group B Herbicide
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/Fax Number	Tel: (03) 9282-1000 Fax: (03) 9282-1001
Recommended Use	For the early post-emergence control of certain annual grass and broadleaf weeds as part of the Clearfield® Production System for canola, as specified in the Directions for Use table on the label.
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. HAZARDS IDENTIFICATION

Hazard Classification	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization	Liquid												
Ingredients	<table><thead><tr><th><u>Name</u></th><th><u>CAS</u></th><th><u>Proportion</u></th></tr></thead><tbody><tr><td>Imazamox</td><td>114311-32-9</td><td>33 g/L</td></tr><tr><td>Imazapyr</td><td>81334-34-1</td><td>15 g/L</td></tr><tr><td>Other ingredients (considered non-hazardous)</td><td></td><td>>60%</td></tr></tbody></table>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	Imazamox	114311-32-9	33 g/L	Imazapyr	81334-34-1	15 g/L	Other ingredients (considered non-hazardous)		>60%
<u>Name</u>	<u>CAS</u>	<u>Proportion</u>											
Imazamox	114311-32-9	33 g/L											
Imazapyr	81334-34-1	15 g/L											
Other ingredients (considered non-hazardous)		>60%											

4. FIRST AID MEASURES

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	Rinse mouth and then drink plenty of water. Do not give anything by mouth to a semi-conscious or unconscious person. 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	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.
Eye	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice if irritation develops or persists.
First Aid Facilities	If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
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Hazards from Combustion Products	If involved in a fire, the dehydrated components may emit oxides of carbon and oxides of nitrogen.
Speical Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
Specific Hazards	Considered low risk due to water content, however upon evaporation of water the product is combustible.
Hazchem Code	None Allocated

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. Dispose of at a landfill in accordance with local regulations.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

7. HANDLING AND STORAGE

Conditions for Safe Storage	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
Other Information	Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure standards have been set for this product or the active ingredients.
Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
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.
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

Form	Liquid
Appearance	Yellow to amber liquid
Solubility in Water	Soluble in water.
Specific Gravity	1.07 - 1.09
pH Value	6.6
Vapour Pressure	<0.013 mPa @ 25°C for Imazamox and Imazapyr
Octanol/Water Partition Coefficient	Kow Log P is -1.03 @ pH5 for Imazamox and 0.11 for Imazapyr
Flammability	Not flammable
Other Information	pKa is 2.3, 3.3, 10.8 for Imazamox; and 1.9, 3.6, 11 for Imazapyr

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Incompatible Materials	Not compatible with iron and mild steel. Non corrosive to stainless steel, polyethylene and plastics.
Hazardous Polymerization	Hazardous polymerisation is not possible.



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11. TOXICOLOGICAL INFORMATION

Inhalation	The components of the product are of low volatility and no adverse effects are expected from handling the concentrate.
Ingestion	The concentrate is of low toxicity if swallowed.
Skin	Not a skin irritant and not harmful by dermal exposure.
Eye	May irritate the eyes.
Chronic Effects	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.
Reproductive Toxicity	Data indicates no reproductive effects.
Mutagenicity	Data indicates no mutagenic effects.
Carcinogenicity	Data indicates no carcinogenic effects.
Acute Toxicity - Oral	LD50 (rat) >5,000 mg/kg for both Imazamox and Imazapyr
Acute Toxicity - Dermal	LD50 (rat) >2,000 mg/kg for both Imazamox and Imazapyr
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >6.3 mg/l for Imazamox LC50 (rat) (4hr) >5.1 mg/l for Imazapyr
Eye Irritation	Mild eye irritant.
Skin Irritation	Mild skin irritant.
Skin Sensitisation	Product is not a skin sensitiser.
Other Information	The Australian Acceptable Daily Intake (ADI) for Imazamox for a human is 2.8 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 282 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, September 2005). ADI for Imazapyr is 2.5 mg/kg/day, NOEL 250 mg/kg/day.

12. ECOLOGICAL INFORMATION

Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. Do not spray within 50 m of wetlands or waterways.
Environ. Protection	Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish	The following data is for Imazamox and Imazapyr Not toxic to fish. LC50 (96 hr) for rainbow trout is >100 mg/l.
Acute Toxicity - Daphnia	EC50 (48 hr) for daphnia is >100 mg/l for both Imazamox and Imazapyr.
Acute Toxicity - Other Organisms	Birds: Not toxic to birds. LD50 for bobwhite quail is >1846 mg/kg Bees: Not toxic to bees. LD50 >25 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 Do not use this container for any other purpose.
Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.
drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.
If recycling, replace cap and return clean containers to recycler or designated collection point.
If not recycling, 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
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

Poisons Schedule Not Scheduled
Packaging & Labelling 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 First Issue

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