



# Material Safety Data Sheet

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Infosafe No. 3NU0G Issue Date: June 2003 ISSUED by NUFARM

Product Name: **AMICIDE 500 Selective 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 Name** AMICIDE 500 Selective Herbicide

**Proper Shipping Name** None Allocated

<b>Other Names</b>	<u>Name</u>	<u>Product Code</u>
	Nufarm Amicide 500	0040

**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 broadleaved weeds in fallow before direct drilling or sowing of cereals and pastures; in cereal crops, pastures, sugar cane, peanut and non-agricultural areas as per the Directions for Use.

## Physical Data

**Appearance** Clear, red-brown liquid with ammoniacal odour.

**Melting Point** -8°C

**Boiling Point** >100°C (for water)

**Vapour Pressure** 16mmHg (for water), 2,4-D amine salt is non volatile

**Specific Gravity** 1.177

**Flash Point** Non flammable

**Flamm. Limit LEL** Non flammable

**Explosion Data** N/A

## Other Properties

**Volatile Component** 32% (for water)

**Autoignition Temp.** N/A

**Form** Liquid

**Other Information** Completely soluble in water.

## Ingredients

<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	2,4-D (present as the dimethylamine salt)	2008-39-1	500 g/L
	Water		to 100%

## HEALTH HAZARD INFORMATION

### Health Effects

**Acute - Swallowed** The active ingredient constitutes a significant toxic hazard. The concentrate is considered harmful if swallowed, when classified by the Worksafe Criteria. Absorption of 2,4-D in relatively large amounts can produce headaches, nausea, lethargy, motor weakness and inco-ordination.



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**Acute - Eye** Will cause severe irritation and possible damage unless washed off immediately.

**Acute - Skin** May cause reddening of the skin and some irritation if contact is prolonged. Prolonged contact of skin with the concentrate may result in some absorption of 2,4-D through the skin, which is harmful.

**Acute - Inhaled** May constitute a moderate hazard during spraying operations. The product is considered harmful by inhalation, according to the Worksafe Criteria.

**Chronic** Chronic Over Exposure: Repeated absorption of relatively large amounts of 2,4-D presents a risk to the liver and kidneys.

## First Aid

**Swallowed** 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.  
The above first aid instructions are mandated by the Commonwealth Department of Health and Aged Care via the National Drugs and Poisons Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about one tablespoon for an adult person) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a semi-conscious or unconscious person.

**Eye** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.

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

**Inhaled** Remove victim to fresh air until recovered.

**First Aid Facilities** If poisoning occurs, contact a doctor or Poisons Information Centre 13 1126.

## Advice to Doctor

**Advice to Doctor** Treat symptomatically.

## Other Health Hazard Information

## PRECAUTIONS FOR USE

**Exposure Limits** No exposure limits for this product have been set, however, an exposure limit has been set for 2,4-D acid (solid) at 10 mg/m<sup>3</sup>.

**Eng. Controls** Handle in well ventilated area, generally natural ventilation is adequate.

## Personal Protection

**Protective Equip.** Avoid contact with eyes and skin. Do NOT inhale spray mist.  
When preparing product for use wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves and effective eye protection. 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. Wash concentrate from skin and eyes immediately.

## Flammability

**Fire Hazards** Non flammable.

## SAFE HANDLING INFORMATION



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## Storage and Transport

### Storage and Transport Road Transport:

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

### Storage:

Keep container tightly sealed and do not store with seed, fertilisers or other pesticides.

### Proper Shipping Name

None Allocated

## Spills and Disposal

### Spills & Disposal

Contain spill and absorb with sand or proprietary absorbent (vermiculite). Prevent from entering drains, waterways or sewers.

Collect in sealed open top containers for disposal.

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

## Fire/Explosion Hazard

### Fire/Explos. Hazard

Non flammable.

If material is involved in a fire in a confined area, breathable air apparatus may need to be worn.

May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.

### Hazardous Reaction

Reaction of the concentrate or spray mix with acids will precipitate solid 2,4-D acid and largely de-activate the product and cause blockages in spray equipment.

The addition of a strong alkali such as caustic soda will cause release of dimethylamine vapour. Dimethylamine is moderately toxic, LD50 (oral, rat) is 700 mg/Kg and a TLV of 10 ppm (TWA) has been set.

Under adverse conditions, the product may react strongly with powerful oxidising agents.

Hazardous polymerisation is not possible.

### Hazchem Code

None Allocated

## OTHER INFORMATION



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<b>Toxicology</b>	<p>2,4-D (dichlorophenoxyacetic acid) LD50 (oral, rat) 699 mg/kg LD50 (dermal, rabbit) &gt;2,000 mg/kg LC50 (inhalation, rat) &gt;1.79 mg/L (4hr) Not toxic to bees LC50 (rainbow trout) ~100 mg/L LC50 (mallard duck) &gt;5,000 mg/kg diet LD50 (mallard duck) &gt;1,000 mg/kg Dimethylamine Acute oral LD50 700 mg/kg (rat) 2,4-D (2,4-dichlorophenoxyacetic acid) dimethylamine salt: Acute LC50 (48hr) (daphnia) 184mg/L In trials using 2,4-D as a drug, studies on volunteers have shown that doses of between 5 and 36mg/kg body weight do not cause any acute toxic effects. Formulated 2,4-D products can be absorbed by ingestion, inhalation (spray mist) and through the skin. Studies of users (sprayers) has shown that absorption through the skin is the most common route. When used with good agricultural spraying practice and good personal hygiene, absorption of 2,4-D is very low. 2,4-D does not accumulate in the body; a single dose of 2,4-D is rapidly excreted (in a few days), mainly in the urine. The Australian Acceptable Daily Intake (ADI) of 2,4-D for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 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).</p>
<b>Environ. Protection</b>	<p>2,4-D products do not appear to pose any threat to birds. 2,4-D products do not appear to pose any threat to fish other than in very high concentrations. DO NOT spray in high winds. Do not contaminate dams, rivers or streams with pesticide or used containers. Do not use this container for any other purpose. Wash out the container and dispose of it in an approved manner. Equipment that has been used for this chemical should not be used for the application of other materials to sensitive plants, unless it has been well washed out with hot soapy water or 1% solution of ammonia, followed by several clear water rinses. Do not use on or in situations where damage to susceptible crops plants such as cotton, tobacco, tomatoes, flowers, vines, fruit trees or other susceptible crop plants may result from direct application or drift.</p>
<b>Pkg. &amp; Labelling</b>	<p>CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING. Not to be used for any purpose or in any manner contrary to the label unless authorised under appropriate legislation. The product has been assessed according to the Worksafe criteria for classifying hazardous substances and is classified as hazardous. Risk Phrases: R20/21/22 Harmful by inhalation, in contact with skin and if swallowed Safety Phrases: S2 - Keep out of reach of children S13 - Keep away from food, drink and animal feeding stuffs.</p>

## CONTACT POINT

<b>Contact</b>	Normal Hours: Mr Volker Maier	Phone: (03) 9282 1000
	After Hours: Shift Supervisor	Phone: 1800 033 498



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...End Of MSDS...