



103 - 105 PIPE ROAD, LAVERTON NORTH, VIC. AUSTRALIA 3026  
Postal Address: PO Box 103, LAVERTON, VIC. AUSTRALIA 3028  
Telephone: 03 9282 1000 Fax: 03 9282 1001

PRODUCT: AMICIDE 625 SELECTIVE HERBICIDE	Infosafe No:NUOCL ISSUED: Apr 01
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Hazardous according to criteria of Worksafe Australia

UN NO....: D.G.CLASS: CAS NO...:  
HAZCHEM...: SUB. RISK:  
SUSDP....: S5 (FED) S5 (NSW) S5 (VIC) S5 (SA) S5 (WA) S5 (Qld) S5 (Tas) S5 (NT)  
G.T.EPG...: SPEC.EPG.: PACK. GRP:

PRODUCT IDENTIFICATION

OTHER NAMES:

TRADENAMES.: MANUF.: MANCODE:  
Amicide 625 Selective Herbicide NUFARM 0042

INGREDIENTS:

CHEMICAL ENTITY:	CAS NO:	PROPORTION:
2,4-D present as dimethylamine and diethanolamine salts		625 g/L
Water	7732-18-5	380 g/L

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE:

Clear, red-brown liquid with ammoniacal odour.

BOILING POINT.....: >100°C (for water)

MELTING POINT.....: <0°C

VAPOUR PRESSURE....: 16mmHg (for water), 2,4-D amine salt is non volatile

VOLATILE COMPONENT.: 30%

SPECIFIC GRAVITY...: 1.254

FLASH POINT.....: Non flammable

FLAMMABILITY LIMITS: Non flammable

EXPLOSIVE LIMITS...: N/A

AUTOIGNITION TEMP..: N/A

FORM.....: Liquid

OTHER PROPERTIES:

Completely soluble in water.

USE:

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



**MATERIAL SAFETY DATA SHEET**

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HEALTH HAZARD INFORMATION

**ACUTE EFFECTS**

**SWALLOWED:**

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

**EYE:**

The concentrate will cause severe irritation and possible damage unless washed off immediately.

**SKIN:**

May cause some 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 according to Worksafe Criteria.

**INHALED:**

The concentrate is considered harmful by inhalation by Worksafe Australia. The product may constitute a moderate hazard during spraying operations.

**CHRONIC EFFECTS**

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 and if more than 15 minutes from a hospital, induce vomiting using Ipecac Syrup (APF) if available. Notify physician.

**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 (Aust ph: 131126).

**ADVICE TO DOCTOR:**

Treat symptomatically.



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TOXICITY DATA:

2,4-D (2,4-dichlorophenoxyacetic acid)  
LD50 (oral, rat) 699mg/Kg  
LD50 (dermal, rabbit) >2,000mg/Kg  
LC50 (inhalation, rat) >1.79mg/L (maximum attainable concentration)

Not toxic to bees

LC50 (rainbow trout) ~100 mg/L  
LC50 (daphnia) 1.4mg/L  
LC50 (mallard duck) >5,000mg/Kg in diet  
LD50 (mallard duck) >1,000mg/Kg

Dimethylamine

Acute oral LD50 700 mg/kg (rat)

Diethanolamine

Acute oral LD50 710 mg/kg (rat)

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 0.01mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1mg/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 & Family Services, TGA, "ADI List", AGPS, April 1997

PRECAUTIONS FOR USE

EXPOSURE STANDARDS:

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/m3



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**ENGINEERING CONTROLS:**

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

**PERSONAL PROTECTION:**

Avoid contact with eyes and skin.

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. Obtain an emergency supply of Ipecac Syrup (APF). Wash concentrate from skin and eyes immediately.

Avoid working in and breathing spray mist.

**FLAMMABILITY:**

Non flammable.

**ENVIRONMENT:**

Marine Pollutant.

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.

:::::::::::::::::::::::::::::::::::: **SAFE HANDLING INFORMATION** ::::::::::::::::::::::::::::::

**STORAGE AND TRANSPORT:**

Road Transport:

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

Sea Transport:

Environmentally hazardous substances, liquid, nos.

UN No. 3082

Class: 9

Packaging Group: III



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**STORAGE AND TRANSPORT: - (continued)**

**Storage:**

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

**Packaging and Labelling:**

**CAUTION**

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING

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

**SPILLS AND 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:**

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.

**Reactivity Data:**

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



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Reactivity Data: - (continued)  
oxidising agents.

Hazardous polymerisation is not possible.

OTHER INFORMATION

User Data:

Contact Point:

Normal Hours: Mr. Volker Maier Phone: (03) 9282-1000

After Hours: Shift Supervisor Phone: 1 800 033 498

End: Infosafe printed Material Safety Data Sheet - 9 April 2001