



Material Safety Data Sheet

ORYZALIN 500 HERBICIDE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product trade name: 4Farmers Oryzalin 500 Herbicide
Other names:
Recommended use: Agricultural Herbicide. Main uses are pre-emergent weed control in orchards.
Company name & address: 4Farmers Pty. Ltd.
A.C.N 067 443 485
70 McDowell St, Welshpool, Western Australia, 6106.
Ph: (08) 9356 3445 Fax (08) 9356 3447
643 Murray Street, West Perth, Western Australia, 6005
Emergency telephone number: Australian Centre for Occupational Health and Safety
1800 638 556 (24 hours)

2. HAZARDS IDENTIFICATION

Hazard classification: Non-hazardous substance. Non-dangerous goods.
Risk phrases: R22 Harmful if swallowed.
Safety phrases: S20/21 When using do not eat or drink/smoke
S24/25 Avoid contact with skin/eyes
S29/35 Do not empty into drains/Dispose of material and container in a safe way
SUSDP Classification: Unscheduled
ADG Classification: Not a dangerous good
UN Number: None allocated

3. COMPOSITION

Substance	CAS Number	% content
Oryzalin (4-dipropylamino 3,5-dinitro benzenesulphonamide)	19044-88-3	50% w/v
Non hazardous ingredients including dispersants and water.		To 100%

4. FIRST AID MEASURES

Skin contact: Remove contaminated clothing. Wash contaminated skin with soapy water. If skin irritation develops, get medical attention. Wash clothing thoroughly before re-use.
Eye contact: Rinse eye(s) with clean running water for 15 mins. Get medical attention.
Ingestion: Rinse mouth. Give water to drink if patient is conscious. DO NOT induce vomiting. If vomiting occurs ensure patient can breathe, then give water to drink. Get medical attention.
Advice to doctor: Not likely to be harmful. No specific antidote is known. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Will not burn unless prolonged exposure to heat evaporates all water. Will not explode.
Treat any fire according to whatever else is contributing to the combustion.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures: Wear protective equipment to prevent skin and eyes being affected.
Evacuate unprotected and unnecessary personnel from area of spill.
If material is leaking from a container, stop the leak only if this can be done safely.
Prevent spillage entering drains or watercourse.
Methods for containment & cleanup: Vermiculite, Sand, Soil is a suitable absorbent, especially soils high in clay.
Soil can be used to form bunds to contain spillage.
Contaminated soil should be collected for disposal at a suitable landfill.
Contaminated area and tools should be washed down with hypochlorite bleach.
Personal protective equipment and clothing should be washed with soapy water.



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7. HANDLING AND STORAGE

- Handling: Keep away from food, drink, and animal feedstuff.
KEEP OUT OF REACH OF CHILDREN.
Wear suitable Personal protective equipment when handling and spraying.
- Storage: Store in the original container in a dry, cool, ventilated, LOCKED area.
DO NOT store in prolonged sunlight.
DO NOT store with food, seed, or animal feedstuff.
Product may settle after prolonged storage. Agitate container periodically.

8. EXPOSURE CONTROLS

- National exposure standards: Not established.
- Biological limit values: ADI for Oryzalin 0.1 mg/kg/day. NOEL 12 mg/kg/day.
- Engineering measures: Assisted ventilation not generally needed.
- Personal protection equipment:
- Eye/face protection: Goggles or glasses to AS 1366, AS/NZS1337
 - Hand/skin protection: Overalls, PVC gloves and apron, face shield
 - Respiratory protection: Should not be necessary under normal conditions. If spray mist may be encountered, a particulate filter to AS/NZS 1715 should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Bright orange, viscous liquid.
- Odour: Almost none.
- pH: Essentially neutral.
- Vapour pressure: Oryzalin is non-volatile (<1.3 µPa), VP is that of water.
- Vapour density: = Water.
- Boiling point/range: ≈ 100 °C.
- Melting/freezing point: ≈ 0 °C.
- Solubility: Oryzalin is insoluble (2.6 ppm). Product is fully dispersable.
- Specific gravity - density: 1.18
- Flashpoint: non-flammable
- Explosive limits (air): non-flammable
- Ignition temperature: non-flammable
- Other:

10. STABILITY AND REACTIVITY

- Chemical stability: Does not react, polymerise, or decompose spontaneously.
- Conditions to avoid: Do not store above 30 °C.
- Materials to avoid:
- Hazardous decomposition products: Oxides of Nitrogen, Sulphur, and Carbon.
- Hazardous reactions: None known.

11. TOXICOLOGICAL INFORMATION

- Acute toxicity: Not toxic. LD₅₀ < 10,000 mg/kg rats & mice, 1000 mg/kg cats & dogs.
- Chronic toxicity: NOEL (2 year) for rats 12 mg/kg/day, mice 100 mg/kg/day.
- Possible routes of exposure: Inhalation of spray mist is the most likely cause of exposure.
- Range of effects. Excessive exposure may affect human health as follows:
- Skin contact: Unlikely.
 - Eye contact: Unlikely.
 - Inhalation/ingestion: Unlikely.
- Dose/conc./conditions likely to cause injury:

- Delayed effects if any:
- Relevant negative data: Not known to have reproductive, teratogenic or mutagenic effects. Variable data regarding carcinogenic effects, but only at very high dosages.



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12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic organisms:	
Flora:	Toxic to some algae, probably minimal effects on established plants.
Fauna:	Moderately toxic to fish.
Soil organisms:	Low toxicity. Degraded by microbes relatively quickly.
Bees:	Low toxicity.
Long term:	No effects expected.
Ozone effects:	None recorded.
Persistence/degradation:	(as per Environment Australia www.ea.gov.au)
Mobility:	Moderate.
Bioaccumulative potential:	Low. Excreted rapidly by animals.

13. DISPOSAL CONSIDERATIONS

Product:	Whenever possible, product should be used for its intended purpose, even if reclaimed from spillage (reclaimed product must be uncontaminated).
Containers:	Whenever possible, follow directions given on container. If not available, triple or pressure rinse plastic or metal containers before disposal. Recycle containers if possible (replace cap and return clean containers to recycler or designated collection point). Treat rinsings as for product above. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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.
Sewage:	Do not dispose of product or rinsings into sewage systems or septic tanks.

14. TRANSPORT INFORMATION

UN Number:	None.
UN proper shipping name:	None.
ADG Class & subsidiary risks:	None.
ADG Packing Group:	None.
Special precautions:	Do not store with foodstuffs.
Hazchem code:	None.

4Farmers does not anticipate that this product will be shipped by air or sea, nor be exported. Extra precautions may apply if such transport is undertaken.

15. REGULATORY INFORMATION

16. OTHER INFORMATION