



Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product trade name: Clopyralid 300 Selective Herbicide
Other names:
Recommended use: Agricultural herbicide
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:
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: S6
ADG Classification: Not a dangerous good
UN Number: None allocated

3. COMPOSITION

| Substance | CAS Number | % content |
|------------------------------------|-------------|-----------|
| Clopyralid triisopropanolamine | 057724-85-5 | 67 |
| Non-hazardous substances and water | | To 100 |

4. FIRST AID MEASURES

Skin contact: Product has low dermal toxicity. Remove contaminated clothing, wash with soap and water.
Eye contact: Product is not an eye irritant. Hold eye(s) open and rinse with running water for at least 15 mins. See a doctor.
Ingestion: Product is of low toxicity. DO NOT induce vomiting. Seek medical attention.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: All.
Unsuitable extinguishing media: None.
Special hazards in fire: Will not burn until heated to dryness. Combustion products may include nitrogen oxides and/or chlorine compounds.
Required special protective equipment for fire-fighters: Wear self contained breathing apparatus if in enclosed spaces.
Hazchem code: None allocated.

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 are suitable absorbents, especially soils high in clay.
Soil can be used to form bunds to contain spillage.



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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.

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.

8. EXPOSURE CONTROLS

National exposure standards: Not established for airborne dusts or mists. Adhere to the default of 10 mg/m³.
ADI (Acceptable Daily Intake) is 0.5 mg/kg/day. NOEL (No Observable Effect Level) is 50 mg/kg/day.

Biological limit values:

Engineering measures: Add artificial ventilation if natural ventilation is inadequate.

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: Blue liquid.

Odour: Faint.

pH:

Vapour pressure: Active has negligible VP. Product VP will be that of water.

Vapour density: As above.

Boiling point/range: > 100 °C.

Melting/freezing point: < 0 °C

Solubility: Fully miscible with water.

Specific gravity - density: 1.15 – 1.18 g/ml.

Flashpoint: Does not burn.

Explosive limits (air): Does not form explosive mixes with air.

Ignition temperature: Does not burn.

Other: A relatively safe product.

10. STABILITY AND REACTIVITY

Chemical stability: Very stable. Will not spontaneously decompose. Will form insoluble complexes with some cations, notably copper.

Conditions to avoid: Do not store in exceptionally hot conditions.

Materials to avoid: No particular incompatibilities.

Hazardous decomposition products: Carbon dioxide, perhaps monoxide. Nitrogen oxides and chlorine compounds.

Hazardous reactions: Does not polymerise or otherwise react spontaneously.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD₅₀ 2675 mg/kg (female rat, male higher – clopyralid acid)

Chronic toxicity: Low

Possible routes of exposure: Inhalation of spray mist is the most likely. Accidental ingestion of dilute product is another.

Range of effects. Excessive exposure may affect human health as follows:

Skin contact: Low toxicity, non irritating.



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Eye contact: Low toxicity, non irritating.
Inhalation/ingestion: Low toxicity.
Dose/conc./conditions likely to cause injury: A person would need to ingest a large volume of product (ca 300 ml), or a very large volume of spray solution to be injured.
Delayed effects if any: Not known.
Relevant negative data: Not carcinogenic, mutagenic, or teratogenic.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Aquatic organisms: Not toxic to fish or others. LC₅₀ values are above 100 mg/L.
Flora: Toxic to some plants, especially Asteraceae.
Fauna: Non toxic.
Soil organisms: Non toxic.
Bees: Non toxic. LD₅₀ > 100µg/bee (clopyralid acid)
Long term: None known.
Ozone effects: None recorded.
Persistence/degradation: Moderate (as per Environment Australia www.ea.gov.au)
Mobility: Moderate, especially in sandy soils.
Bioaccumulative potential: Unknown but probably low. Clopyralid is rapidly excreted by rats.

13. DISPOSAL CONSIDERATIONS

Product: Whenever possible, product should be used for its intended purpose, even if reclaimed from spillage (reclaimed product must be uncontaminated).
Otherwise dispose of in suitable landfill as for containers.
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 allocated.
UN proper shipping name: None allocated.
ADG Class & subsidiary risks: None allocated.
ADG Packing Group: None allocated.
Special precautions: Do not pack with foodstuffs.
Hazchem code: None allocated.
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