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Donaghys Broadleaf Killer 2,4-D ester

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1. PRODUCT AND COMPANY IDENTIFICATION

Product: Donaghys Broadleaf Kill 2, 4-D ester
Company: Donaghys Industries Ltd
Address: 2 Nazareth Ave, PO Box 20449, Christchurch
Telephone Number: 0800 942 006
Emergency Telephone Number (24/7): National Poisons Centre 0800 POISON (764 766)
Chemical family: Phenoxy acetic
Manufacturer's Product Code:
Use: Selective herbicide in pasture.

2. HAZARDS IDENTIFICATION

Hazard classes:

- 3.1D WARNING – Combustible Liquid
- 6.1D WARNING – Harmful if swallowed
- 6.3B WARNING – Causes mild skin irritation
- 6.5B WARNING – May cause allergic skin reaction
- 6.9A DANGER – Causes damage to organs through prolonged or repeated exposure.
- 9.1A Very toxic to aquatic life
- 9.2A Very toxic to soil environment
- 9.3C Harmful to terrestrial vertebrates

ERMA NZ approval code: HSR000415

3. COMPOSITION

<u>Chemical Entity</u>	<u>CAS #</u>	<u>Proportion</u>
2,4 Dichlorophenoxyacetic acid, ethylhexyl ester	1928-43-4	785g/L
Heavy Aromatic Solvent (Naphtha)	64742-94-5	170g/L
Water, Inerts, pH adjusters and sequesterants		100g/L

4. FIRST AID INFORMATION

Consult the National Poisons Information Center (0800 POISON or 0800 764 766) or a doctor in every case of suspected chemical poisoning. If medical advice is needed, have product container or label at hand. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury.

Ingestion: If swallowed, call a poison centre or doctor / physician if you feel unwell. Drink several glasses of water, rinse mouth and seek medical attention. Causes damage to organs after repeated oral exposure at high doses. Do not induce vomiting or give anything by mouth to an unconscious person. If medical advice is needed have a product label or container at hand.

IN CASE OF EMERGENCY PHONE

National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)

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- Eye contact:** May cause eye irritation. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. If eye irritation persists: Get medical advice/attention.
- Skin contact:** Causes mild skin irritation, and may result in an allergic skin reaction. If on skin wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention.
- Inhalation:** May be harmful if inhaled. Do not breathe mist or spray. If ill-effects occur move to fresh air. Call the National Poisons Centre (0800 764 766) or get medical advice/attention if you feel unwell.
- Advice to Doctor:** Treat according to symptoms. No specific antidote.

5. FIRE FIGHTING MEASURES

- Flashpoint:** 76°C
- Flammable limits:** LFL: 0.8% (solvent). UFL: 6.0% (solvent).
- Extinguishing media:** Water fog, dry chemical, foam or carbon dioxide.
- Special fire fighting methods:** Noxious fumes produced under fire conditions. Do not allow runoff to enter drains. Contain contaminated extinguishing water. Wear positive pressure self-contained, breathing apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

- Spills and Disposal:** Avoid contact with the spilled material or contaminated surfaces. Absorb spilled material using soil, absorbent granules etc. In case of large spills, dike area. Prevent from entering drains, waterways and sewers. Report large spills by contacting emergency services on 111 immediately.

7. HANDLING AND STORAGE

- Storage:** Keep out of reach of children. Store locked up in a well-ventilated area out of direct sunlight. Keep cool. Keep containers tightly closed, away from feed, food stuffs, fertilizers and seeds.
- Handling:** Read label before use. Wear chemical resistant gloves and face/eye protection. Keep away from open flames or hot surfaces. Do not breathe vapours/spray. Wash protective clothing and equipment before reuse. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid unintended release to the environment. Collect spillage.

This substance is subject to a requirement for an emergency plan, secondary containment and signage, whenever it is held in quantities of 100 liters or more, either alone or in aggregate with other hazardous substances. See Hazardous substances (Emergency Management) Regulations 25 to 42.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

- Exposure Guideline: 2, 4-D Acid: 10mg/m³ [NZ Workplace Exposure Standards]
Eye Protection: Where splashing is likely, wear chemical splash goggles.
Protective Clothing: Where contact is likely, wear chemical-resistant (e.g. nitrile or butyl) gloves, cotton overalls, and chemical resistant footwear.
Engineering Controls: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. If exposed, call the National Poisons Centre (0800 764 766) or a doctor/physician.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Clear yellow liquid
Boiling Point: 186°C (solvent)
Vapor Pressure: 0.002Pa at 25°C (2,4-D ethylhexyl ester)
21mmHg at 38°C (solvent)
Vapor Density: Not available
Density: 1.08-1.09 g/mL @20°C
Flash Point: 76°C (solvent)
Explosive Properties: Not applicable
Decomposition Temperature: Not available
Solubility in Water: Miscible
pH: 7.5-9.5

10. STABILITY AND REACTIVITY

- Conditions to avoid: Avoid excessive heat. Stable at normal temperatures
Materials to avoid: Acids and reducing agents
Hazardous decomposition products: Hydrogen chloride, Nitrogen oxide under fire conditions

11. TOXICOLOGICAL INFORMATION

- Eye: May cause slight irritation. Corneal injury is unlikely.
Acute Ingestion: LD50 (female rat) > 1045mg/kg for a similarly formulated product. May cause damage to organs after repeated oral exposure at high doses. Single dose oral toxicity is low.
Acute Inhalation: May be harmful if inhaled.

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Systemic Effects: The following animal organs have been reported to be affected:
Gastrointestinal tract, kidney, liver and muscular system.
Observations in animals include gastrointestinal effects and vomiting.

Oncological information: 2, 4-D acid did not cause cancer in laboratory animals

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Very toxic to aquatic life.
Terrestrial Vertebrates: Toxic to terrestrial vertebrates. 2,4-D does not bioaccumulate in animal systems.
Soil Toxicity: Very toxic to the soil environment.

13. DISPOSAL INFORMATION

Triple rinse container and add rinsate to spray tank. Burn container if circumstances (especially wind direction) permit. Otherwise puncture top, bottom and sides and bury in an approved landfill or under 50cm of earth. Avoid contamination of any water supply. Do not use container for any other purpose.

14. TRANSPORT INFORMATION

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
(CONTAINS 2, 4-D)
UN Number: 3082
Class: 9
Packing Group: III
HAZCHEM code: 2Z

15. REGULATORY INFORMATION

ACVM Approval Number: P7706 (see www.nzfsa.govt.nz/acvm for conditions)
ERMA New Zealand Approval Code: HSR000607 (see www.ermanz.govt.nz for conditions)

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