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Section 1 – Identification of the substance/preparation and the company

Product Name: Donaghys Broadleaf Kill 2,4-D Amine

Company: Donaghys Ltd.

Address: 16 Sheffield Crescent

PO Box 20 449 Christchurch

Telephone Number: 0800 942 006

Manufacturers Product Code: AG24020 / AG24100 / AG241000

Recommended Use: Selective herbicide

Section 2 - Hazard Identification

GHS Classifications: Eye irritation Category 2

Specific target organ toxicity – repeated exposure Category 1 Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1

Hazardous to soil organisms
Hazardous to terrestrial vertebrates

GHS Pictograms:







Hazard Statements: H319 Causes serious eye irritation

H372 Causes damage to organs through prolonged or repeated

exposure

H410 Very toxic to aquatic life with long lasting effects

Hazardous to soil organisms Hazardous to terrestrial vertebrates

Prevention Statements: P102 Keep out of reach of children

P103 Read label before use

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P273 Avoid release to the environment

P280 Wear protective nitrile rubber gloves, protective overalls, chemical resistant safety glasses or full-face protection

Response Statements: P305 + P351 IF IN EYES: Rinse cautiously with water for several

+ P338 minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P391 Collect spillage.

Signal Word: WARNING EPA NZ Approval Code: HSR000607





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Section 3 – Composition Information

ChemicalCAS No.Content2,4-D Dichlorophenoxyacetic acid (2,4-D Acid)2569-01-9 400 g L^{-1} Triethanolamine102-71-6 340 g L^{-1}

Balance made up of non-hazardous material (ERMA New Zealand User Guide to the Thresholds and Classifications)

Section 4 - First Aid Measures

General Never give anything by mouth to an unconscious person.

Keep label or packaging available for emergency personnel.

Show this SDS to emergency personnel if requested

If Swallowed: Rinse mouth. DO NOT induce vomiting. Have person sip a glass of

water if able to swallow. Immediately call the POISON CENTER

(0800 764 766) or a doctor/physician.

If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do so. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

If on skin: Wash with plenty of soap and water. Wash contaminated clothing

before reuse. Contact a medical practitioner if symptoms persist.

If inhaled: Remove to fresh air and keep at rest in a position comfortable for

breathing. Get medical advice/attention. If person is not breathing,

call 111 and request an ambulance.

Advice for medical

personnel:

Treat according to symptoms. There are no specific antidotes.

If medical advice is needed, have product container or label at hand.
POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)

Section 5 – Fire-fighting Measures

Flashpoint: Not flammable (tested to 200 °C)

Combustion Products: May give off toxic nitrogen oxides, and hydrogen chloride in a fire

Flammability Limits: Not available

Protective Equipment: Self-contained breathing apparatus, protective gloves and clothing

Extinguishing Media: Water fog, Foam, carbon dioxide, dry chemicals

Hazchem Code: 3Z

Special Fire Fighting

Methods:

Prevent run off entering waterways





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Section 6 - Accidental Release Measures

Small Spill (non-emergency personnel)

Spills and Disposal: Absorb spill with an inert material and place in suitable labeled

container. We recommend kitty litter. For final cleaning up, a detergent

based solvent may be required. Collect spillage.

Protective Equipment: Wear protective nitrile rubber gloves, face/eye protection and

appropriate half-mask respirator (see section 8).

Environmental Avoid entry into waterways or streams. Prevent washings from

Precautions: entering waterways by damming or covering drain entrances, if safe to

do so.

Large Spill (emergency personnel)

Spills and Disposal: Absorb spill with an inert material and place in suitable labeled

container. We recommend kitty litter. For final cleaning up, a detergent

based solvent may be required.

Protective Equipment: Wear protective nitrile rubber gloves, face/eye protection and

appropriate half-mask respirator (see section 8).

Environmental Avoid entry into waterways or streams. Prevent washings from

Precautions: entering waterways by damming or covering drain entrances, if safe to

do so. Collect spillage.

Prevention Level 1 emergency management plans need to be in place for

quantities between 0.1 and 5 L

Level 2 emergency management plans need to be in place for all

workplaces and or quantities between 5 L and 100 L

Level 3 emergency management plans need to be in place for

quantities above 100 L

See Hazardous Substances (Emergency Management) Regulations 2001

Section 7- Handling and Storage

Storage: Store out of direct sunlight.

Keep out of reach of children. Do not store near waterways.

Do not store where damage may occur.

Handling: Do not handle until all safety instructions have been read and

understood.

Wear eye / face protection.

In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the

workplace.

Avoid unintended release to the environment.





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Approved Handler: This hazardous substance must be under the personal control of and

approved handler when the substance is applied in a wide dispersive

manner; or used by a commercial contractor.

For more information see Regulations 4-6 Hazardous substances

(Personnel Qualifications) Regulations 2001.

Tracking regulations: Record Keeping

Do not apply

eping Records of use as described in NZS 8409 Management of

Agrichemicals must be kept where more than 3 kg of this product is used within 24 hours in a place where pesticide is likely to enter air or

water and leave the application area.

Section 8 - Exposure Controls/Personal Protection

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

Exposure Limits: Workplace exposure - Time weighted average (TWA) 10 mg/m³

Tolerable Exposure Limits: (TEL): Not Available Environmental Exposure Limits (EEL): Not available

Protective Equipment: Observe good work place practices and avoid contact with skin and

eyes. To protect your skin and eyes, wear protective overalls, chemical resistant safety glasses and nitrile rubber gloves when handling. Wear eye / face protection. In case of inadequate ventilation, wear half mask filter respiration unit suitable for dust.

Gloves

Wear nitrile rubber gloves with a minimum layer thickness of 0.11 mm. Break through time: 480 min This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate

government standards

Hygiene Precautions: Do not eat, drink or smoke when using this product. Be careful not

to contaminate yourself when removing contaminated clothing.

Engineering Controls: Handle in well-ventilated area. Use process enclosures, local

exhaust ventilation, or other engineering controls to keep airborne

levels below exposure limits. Avoid inhalation of dust.





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Section 9 - Physical and Chemical Properties

Appearance: Creamy yellow liquid

Odour Slight phenolic/ammoniacal odour

pH: 7.5-9.5

Vapour Pressure: $1.40 \times 10-7 \text{ mm Hg at } 20 \text{ °C } (2,4-D)$

3.59X10-6 mm Hg at 25 °C

Vapour Density: Not available

Boiling Point: 160 °C at 4 mm Hg (2,4-D)

350 °C at 4 mm Hg (Triethanolamine)

Freezing/Melting point 138 °C (2,4-D)

21.5 °C at 4 mm Hg (Triethanolamine)

Flash Point: Not available

Solubility: Miscible in water (2,4-D 677 ppm at 25 °C)

Specific Gravity: 1.10-1.30 (mixture)

Dissociation Constant (p K_a **)** 2.73 (2,4-D)

7.76 (Triethanolamine)

Section 10 - Stability and Reactivity

Stability: Stable under normal ambient and anticipated storage and

handling conditions of temperature and pressure.

Conditions to Avoid: Avoid direct sunlight, avoid generation of dust and excessive

heat.

Materials to Avoid: Incompatible with acids and oxidizing agents

Hazardous Decomposition

Products:

fire

May give off toxic nitrogen oxides, and hydrogen chloride in a

Section 11 - Toxicological Information

Oral LD₅₀: Rat > 3000 mg kg⁻¹

The ingestion of several ounces of triethanolamine can probably be tolerated by man, but unless the liquid is partly neutralized with acid, alkali burns of the mouth, pharynx and esophagus are likely.

Inhalation LC₅₀: Rat > 5.8 mg L⁻¹

Dermal: Triethanolamine has been identified as causing allergic contact

dermatitis, erythematous vesicular lesions, eczema, contact dermatitis, and irritation in workers exposed to triethanolamine in

their occupations.

2,4-D contact with the skin may cause a rash prolonged exposure

can cause dermatitis.





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Ocular: Mild irritation

Carcinogenicity: Consensus from WorkSafe is that 2,4-D does not cause cancer

Triethanolamine is not classifiable as to its carcinogenicity to

humans

Reproductive toxicity: No conclusive evidence

Genotoxicity: Not genotoxic.

Neurotoxicity: No sub chronic neurotoxicity.

No neurodevelopmental toxicity.

Section 12 - Ecological Information

EPA Classification: Hazardous to the aquatic environment acute Category 1

Hazardous to the aquatic environment chronic Category 1

Hazardous to soil organisms

Hazardous to terrestrial vertebrates

Aquatic toxicity: Very toxic to the aquatic environment

Vertebrate toxicity Substances that are ecotoxic to terrestrial vertebrates

Invertebrate toxicity Substances that are ecotoxic to terrestrial invertebrates

Soil toxicity Substances that are very ecotoxic in the soil environment

Bioaccumulation No evidence

Atmospheric toxicity Rapidly degrades in the atmosphere

General 2,4-D should not be used if there is a risk to bees and a risk of run

off into waterways.

Section 13 - Disposal Considerations

Product Disposal: When empty, triple rinse container and add residues to spray tank.

Dispose of empty container at an approved landfill or other approved facility. Avoid contamination of any water supply with product or empty

container. Do not re-use container

Section 14 - Transport Information

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S

(Contains 2,4-D)

UN Number: 3082

DG Class: 9

Subsidiary Risk Class: N/A

Packing Group:

HAZCHEM Code: 3Z





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Section 15 - Regulatory Information

EPA NZ Registration Code: HSR000607

See http://www.epa.govt.nz for approval conditions

ACVM Approval Number: P007647

See www.foodsafety.govt.nz for registration conditions

Approved handler: This hazardous substance must be under the personal control

of and approved handler when the substance is applied in a wide dispersive manner; or used by a commercial contractor. For more information see Regulations 4-6 Hazardous substances (Personnel Qualifications) Regulations 2001.

Tracking requirements: Not required

Section 16 - Other Information

The information in this SDS is provided in good faith, but no warranty, expressed or implied is made. Contact Donaghys Ltd for more information.

POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)