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

**Product Name:** DONAGHYS RAINVEL  
**Company:** Donaghys Ltd  
**Address:** 16 Sheffield Crescent  
 PO Box 20 449  
 Christchurch  
**Telephone Number:** 0800 942 006  
**Manufacturer Product Codes:** ARVH0005 / ARVH0020  
**Recommended Use:** A selective herbicide for the control of difficult broadleaf weeds in cereals, maize, pasture and waste areas (controls atrazine resistant fathen in maize).

## Section 2 – Hazard Identification

**GHS Classifications:** Skin irritation Category 2  
 Eye irritation Category 2  
 Specific target organ toxicity – repeated exposure Category 2  
 Hazardous to the aquatic environment acute Category 1  
 Hazardous to the aquatic environment chronic Category 1  
 Hazardous to soil organisms  
 Hazardous to terrestrial vertebrates  
 Hazardous to terrestrial invertebrates

**GHS Pictograms:**



**Hazard Statements:**  
 H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H373 May cause liver damage from repeated oral exposure at high doses  
 H400 Very toxic to aquatic life  
 H410 Very toxic to aquatic life with long lasting effects  
 H421 Very toxic to the soil environment  
 H432 Toxic to terrestrial vertebrates  
 H442 Toxic to terrestrial invertebrates

**Prevention statements:**  
 P103 Read label before use  
 P260 Do not breathe mist/vapour/spray.  
 P264 Wash hands thoroughly after handling.  
 P273 Avoid release to the environment  
 P280 Wear protective gloves/protective clothing/protective eye protection

**Response Statements:**  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P332 + P313 If skin irritation occurs: Get medical advice/attention.  
 P362 Take off contaminated clothing and wash before re-use.

**IN CASE OF EMERGENCY PHONE**  
**National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)**



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**Response Statements:** (Continued)

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several 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:** HSR000442

### Section 3 – Composition Information

**Substance/Mixture:** Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration (w/v)
Dicamba	1918-00-9	500 g/L
Other ingredients	Not applicable	500 g/L

### Section 4 – First Aid Measures

**Inhalation:** Call a POISON CENTRE or doctor/physician if you feel unwell.

**Ingestion:** Immediately call a POISON CENTRE or doctor/physician for treatment advice. Do NOT induce vomiting.

**Skin:** Wash with plenty of soap and water. DO NOT SCRUB THE SKIN. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use.

**Eye:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Get medical advice/attention if you feel unwell. 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

**Fire And Explosion Hazard:** Not a fire or explosion hazard.

**Suitable Extinguishing Media:** Use extinguishing media suited to the surrounding fire.

**Firefighting Equipment:** Recommended use of self-contained breathing apparatus and full protective equipment.

**Hazardous Combustion Products:** Oxides of carbon, oxides of nitrogen and hydrogen cyanide gas

**Hazchem Code:** Not allocated.

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## Section 6 – Accidental Release Measures

<b>Environmental Precautions:</b>	Washing must be prevented from entering surface water drains. Avoid release to the environment
<b>Methods And Materials for Containment and Cleaning Up:</b>	<b>SPILL:</b>  In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage and dispose of promptly. Recycle containers wherever possible after careful cleaning. Launder protective clothing before storage or re-use.

## Section 7– Handling and Storage

<b>Precautions For Safe Handling:</b>	Keep exposure to this product to a minimum, and minimize the quantities kept in work areas.
<b>Conditions For Safe Storage, Including Any Incompatibilities:</b>	Store in the original container tightly closed and in a secure, dry, cool area away from foodstuffs. Stores containing 100 litres are subject to secondary containment and signage and more than 100 litres require emergency response plans. Do not store for prolonged periods in direct sunlight. Make sure that the product does not come into contact with acids, bases and strong oxidizing agents.

## Section 8 – Exposure Controls/Personal Protection

### Personal Precautionary Measures

<b>Engineering Measures:</b>	No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean and that vapours and mists are minimised.
<b>Hygiene Measures:</b>	Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash contaminated clothing and personal protective equipment before re-use.

### Personal Protective Equipment

<b>Respiratory System:</b>	If there is a significant chance that dusts are likely to build up in the area, a class P1 dust mask should be used.
<b>Skin And Body:</b>	Wear suitable protective clothing, overalls and boots.
<b>Hands:</b>	Wear waterproof gloves.
<b>Eyes:</b>	Wear safety goggles or face shield.

### Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Amber liquid
<b>Odour:</b>	Mild amine odour
<b>Solubility In Water:</b>	Completely soluble
<b>Boiling Point:</b>	Approximately 108°C at 100kPa
<b>Freezing Point:</b>	Approximately -5°C
<b>Vapour Pressure (At 20°C):</b>	2.37 kPa
<b>Vapour Density (Air =1):</b>	No information available
<b>Specific Gravity:</b>	1.17-1.18 at 20°C
<b>Flash Point:</b>	Not flammable

### Section 10 – Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal storage conditions.
<b>Storage Stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
<b>Compatibility:</b>	Do not store with strong acids, strong bases and strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Oxides of carbon, oxides of nitrogen and hydrogen cyanide gas.
<b>Conditions To Avoid:</b>	Heat and light.

### Section 11 – Toxicological Information

<b>Toxicity:</b>	Dicamba at high levels over a long period of time has been shown to cause changes in the liver and a decrease in body weight in rats. In mice, some enlargement of liver cells has occurred.
<b>Inhalation:</b>	Product may be harmful if inhaled.
<b>Eye irritation:</b>	Causes eye irritation.
<b>Skin irritation:</b>	Causes skin irritation.
<b>Ingestion:</b>	Product may be harmful if ingested.

## Section 12 - Ecological Information

### Ecotoxicity:

<b>Toxicity to birds</b>	Dicamba is practically non-toxic to birds. The LD50 for technical dicamba in mallard ducks is 2009 mg/kg. The 8-day dietary LC50 in mallards and in bobwhite quail is greater than 10,000 ppm.
<b>Toxicity to fish:</b>	<p>Dicamba is of low toxicity to fish.</p> <p>LC50 (96 hours):</p> <p>Bluegill sunfish is 135 mg/L</p> <p>Rainbow trout is 135 mg/L</p> <p>Grass shrimp &gt; 100 mg/L</p> <p>Fiddler crab &gt; 180 mg/L</p> <p>Sheepshead minnow &gt; 180 mg/L</p> <p>LC50 (48 hours):</p> <p>Bluegill sunfish is 40 mg/L</p> <p>Rainbow trout is 35 mg/L</p> <p>Carp is 465 mg/L</p>
<b>Toxicity to bee:</b>	Dicamba is not toxic to bees.
<b>Toxicity to daphnia:</b>	LC50 (48 hours): Daphnia magna is 110 mg/L
<b>Effects on other organisms:</b>	Dicamba poses little threat to wildlife

## Section 13 – Disposal Considerations

<b>Product and container disposal:</b>	Preferably dispose of product by use. Otherwise dispose of product, packaging and waste at an approved landfill or equivalent facility in accordance with local, regional and national environmental regulations. Donaghys is a member of Agrecovery Container Recycling programme. For details on how to correctly prepare your container and collection sites please visit <a href="http://www.agrecovery.co.nz">www.agrecovery.co.nz</a> .
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## Section 14 – Transport Information

### Dangerous goods classification

<b>UN Number:</b>	3082
<b>Proper shipping name:</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Dicamba)
<b>Road transport:</b>	
ADR/IRD Class	9
Packing group	III
<b>Maritime transport:</b>	
IMDG/IMO Class	9
Packing group	III
<b>HazChem Code:</b>	3Z

<b>IN CASE OF EMERGENCY PHONE</b> <b>National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)</b>
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#### Section 15 – Regulatory Information

**ERMA NZ Registration Code:** HSR000442  
See <http://www.epa.govt.nz> for approval conditions

**NZFSA Approval Number:** P008815  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

#### Section 16 – Other Information

The data given here is based on current knowledge and experience. The purpose of this safety data sheets is to describe the products in terms of their safety requirement. The data does not signify any warranty with regard to the products properties. For more information, please contact Donaghys Ltd.

**EMERGENCY CONTACT No.: 0800 764 766 (National Poisons Information Centre).**

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