






Revision 23/1/2018	Donaghys Grunt 600 Glyphosate	Page 1 of 5
Original		

1. PRODUCT AND COMPANY IDENTIFICATION	
Product	Donaghys Grunt 600 Glyphosate.
Company	Donaghys Ltd.
Address	16 Sheffield Crescent PO Box 20 449 Christchurch.
Telephone Number	New Zealand: 0800 942 006
Emergency Telephone Number (24/7). Poisons Information Centre	Australia 13 11 26 New Zealand 0800 764 766
Chemical family	N-phosphonomethyl glycine.
Use	Non-selective herbicide.

2. HAZARDS IDENTIFICATION	
Classified as hazardous according to criteria in the Hazardous Substances Regulations 2001.	
EPA NZ Approval Code	HSR101004
Hazard Classes	6.3A, 8.3A, 9.1B
 6.3A	Corrosive to skin.
 8.3A	Corrosive to eyes.
 9.1B	Toxic to aquatic life with long lasting effects.
Hazard Statements	
H315	Causes serious eye damage.
H318	Causes skin irritation.
H411	Toxic to aquatic life with long lasting effects.
Prevention Statements (For more information refer to Section 7)	
P102	Keep out of reach of children.
P103	Read the label before use.
P280	Wear protective clothing/gloves/ eye protection.
P273	Avoid release to the environment.
Response Statements (For more information refer to Section 4)	
P101	If medical advice needed, have product container, label at hand.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do not induce vomiting.

IN CASE OF EMERGENCY PHONE National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)	version 2.1
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Revision 23/1/2018	Donaghys Grunt 600 Glyphosate	Page 2 of 5
Original		

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	IF EXPOSED OR FEEL UNWELL: Immediately call a POISON CENTER or doctor/ physician.

3. COMPOSITION		
Chemical Entity	CAS #	Proportion
Glyphosate (potassium and triethanolamine salts)	1071-83-6	600 g/L a.e.
Cocamidopropyl dimethylamine	68140-01-2	<100g/L

4. FIRST AID INFORMATION	
If swallowed	Harmful if swallowed. Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. If medical advice is needed, have product container or label at hand.
If on skin	Remove contaminated clothing immediately and wash skin with plenty of soap and water. Wash clothing before reuse. Seek medical advice if irritation occurs.
If in eyes	Rinse cautiously for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
If inhaled	Remove to fresh air and keep at rest in a position comfortable for breathing. If ill effects persist, contact doctor or poison centre for advice.

5. FIRE FIGHTING MEASURES	
Flashpoint	Non-flammable.
Flammable limits	None.
Extinguishing media	Dry chemical, water spray/fog, foam or carbon dioxide.
HazChem code	3Z.
Thermal decomposition products	Include oxides of carbon and nitrogen. If involved in a major fire, could evolve oxides of nitrogen or phosphorus.
Hazardous combustion products	This product reacts with galvanized/unlined steel (not stainless steel) containers, to produce hydrogen gas which may form a highly flammable or explosive gas mixture.
Special fire fighting methods	Addition of water may cause excessive foaming. Vapours may be toxic; self-contained breathing apparatus required. Do not allow runoff to enter drains.



Revision 23/1/2018	Donaghys Grunt 600 Glyphosate	Page 3 of 5
Original		

6. ACCIDENTAL RELEASE MEASURES

Toxic to aquatic life with long lasting effects. Using appropriate protective clothing and equipment immediately absorb small spills with material such as sand, sawdust or clay and sweep to a sealable waste container. Dike area in case of large spills and pump as much liquid as possible to a salvage container. For final cleanup of premises a degreasing agent or detergent is advised. Dispose of all waste safely in an approved landfill.

7. HANDLING AND STORAGE	
Storage	<p>Keep away from children</p> <p>Do not mix or store in galvanized or unlined steel containers. Store in original container with lid tightly closed in a cool, dry, well ventilated area out of direct sunlight.</p> <p>Store away from food, fertilizers and seeds and in accordance with NZS 8409: Management of Agrichemicals.</p>
Handling	<p>Read label before use. Wear protective clothing including gloves while handling this product. Do not eat, drink or smoke when handling this product. Use only outdoors in a well-ventilated area. Avoid breathing vapours, mist or spray. Wash hands, arms and face thoroughly after handling.</p>
<p>This product is subject to a requirement for an emergency management plan, secondary containment and signage whenever held in quantities of 1000 litres or more, either alone or in combination with other hazardous substances. See NZS 8409: Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations) for more information.</p>	

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION	
Exposure Limits	No exposure limits have been established for this product.
Engineering Controls	Use only with adequate ventilation.
Eye Protection	Use chemical splash goggles where eye contact is likely.
Respiratory Protection	When spraying use air respirator with organic vapour canister or self-contained breathing apparatus.
Protective Clothing	Where contact is likely, wear chemical resistant gloves, e.g., nitrile or butyl, overalls closed at neck and wrist and chemical resistant footwear.
Hygiene Precautions	Do not eat, drink or smoke whilst working with this product. Wash hands before breaks and after work. Wash contaminated clothing before reuse.

IN CASE OF EMERGENCY PHONE
National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766) version 2.1



Revision 23/1/2018	Donaghys Grunt 600 Glyphosate	Page 4 of 5
Original		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear green liquid.
Boiling Point	>100°C.
Vapour Pressure	Not available.
Vapour Density	Not available.
Density	1.2-1.6g/mL @20°C.
Flash Point	Not applicable.
Explosive Properties	Not applicable.
Decomposition Temperature	Not available.
Solubility in Water	Soluble in water.
pH	4.5 – 7.0.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions / Materials to avoid	Galvanised or unlined steel containers.
Hazardous decomposition products	Reacts with unlined or galvanized steel containers forming hydrogen gas, which may form an explosive mixture with air.

11. TOXICOLOGICAL INFORMATION

Acute Oral	LD50 (rat) >5000mg/kg for a similar formulation
Acute Dermal	LD50 (rabbit) >5000mg/kg for a similar formulation.
Acute Inhalation	LC50 (rat) >4.98mg/L air/4 hours.
Other Information	Avoid skin and eye contact. No harmful effects should occur if the product is used in accordance with the label and this SDS.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity	Toxic to fish and other aquatic organisms with long lasting effects.
Soil Toxicity	Earthworms LC50 (14 days)>10,000 mg /kg soil for active glyphosate.
Terrestrial Vertebrates	Not toxic to birds.
Terrestrial Invertebrates	Not toxic to bees
Other information	Environmental Exposure Limit (EEL) for glyphosate is 0.37mg/L.

IN CASE OF EMERGENCY PHONE
National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766) version 2.1



Revision 23/1/2018	Donaghys Grunt 600 Glyphosate	Page 5 of 5
Original		

13. DISPOSAL INFORMATION
Triple rinse product container and add rinsate to spray tank. Burn container if conditions, particularly wind direction permit; otherwise bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of waterways with chemical or empty container.

14. TRANSPORT INFORMATION	
UN No	3082.
DG class	9.
Packaging Group	III.
Hazchem code	3Z.
Shipping name	Environmentally hazardous substance, liquid, N.O.S. (Glyphosate 60%).

15. REGULATORY INFORMATION	
HSNO approval code	HSR101004; See www.epa.govt.nz for controls.
ACVM approval code	P8482 ; See www.foodsafety.govt.nz for registration conditions.

16. OTHER INFORMATION	
The information in this SDS is provided in good faith, but no warranty, expressed or implied is made. For more information please contact Donaghys Ltd.	
DONAGHYS NZ	0800 942 006
DONAGHYS AUSTRALIA	1800 644 404
POLICE, AMBULANCE & FIRE SERVICE	111
NATION POISON INFORMATION CENTRE	0800 POSION (0800 764 766)
HAZARDOUS SUBSTANCES EMERGENCY	0800 CHEMCALL (0800 243 622)

IN CASE OF EMERGENCY PHONE National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766) version 2.1
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