



Dow AgroSciences

Grazon™

Herbicide

CONTROLS GORSE, BROOM AND A RANGE OF OTHER BRUSHWEEDS

READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING

ACTIVE INGREDIENT:

Contains 600 g/litre triclopyr as the butoxy ethyl ester in the form of an emulsifiable concentrate.

GROUP	03	HERBICIDE
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HARMFUL - Keep out of reach of children
ECOTOXIC



CONTENTS: 1L, 5L, 20L

® ™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

Grazon Herbicide 030915

HAZARD CLASSIFICATION

6.1D, 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C

APPROVED HANDLER

This product must be under the personal control of an approved handler when:

- (a) applied in a wide dispersive manner; or
- (b) used by a commercial contractor.

RECORD KEEPING

Records of use, as described in the relevant HSNO Act Regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3L of Grazon™ is applied, or discharged within 24 hours in a place where members of the public may be present or where the substance may enter air or water and leave the place.

TOXICITY

THIS SUBSTANCE MAY BE HARMFUL IF SWALLOWED, OR ABSORBED THROUGH THE SKIN. MAY CAUSE ORGAN DAMAGE FROM REPEATED ORAL EXPOSURE AT HIGH DOSES. Do not eat, drink or smoke while using. Remove protective clothing immediately after handling this product and wash hands and face before meals and after work.

MAY CAUSE SKIN IRRITATION. Avoid contact with skin and eyes.

ECOTOXICITY

VERY TOXIC TO AQUATIC ORGANISMS. Do not contaminate an aquatic environment with chemical or empty container. Do not spray over, or allow drift over, an aquatic environment.

SELECTIVE HERBICIDE - VERY TOXIC TO SOME PLANT SPECIES. Some plants may be damaged or killed by contact with this product. Do not allow drift outside the target area to occur. Decontaminate equipment before use on sensitive plants (see Application Methods section).

HARMFUL TO TERRESTRIAL VERTEBRATES. Store chemical and empty containers away from animals and birds.

HANDLING PRECAUTIONS**EQUIPMENT**

Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the disposal instructions below.

STORAGE

Store in original container tightly closed, away from foodstuffs.

Stores containing more than 100L of Grazon require bunding and are subject to signage. See the HSNO Act Regulations for Emergency Management and Identification and the New Zealand Standard for the Management of Agrichemicals (NZS8409) for further information.

Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

PERSONAL PROTECTION

When mixing or applying wear eye protection, chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, chemical resistant boots and cotton overalls buttoned to the neck and wrist.

SPILLAGE

Do not touch or walk through spilled material. Wear the protective equipment recommended above. Stop leak when safe to do so. Dike area and prevent entry into waterways, and drains. **Small spills/leaks:** Absorb with proprietary absorbent suitable for chemical spills or inert material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the SDS, product label or Dow AgroSciences regarding disposal. **Large spills/leaks:** dike the area of large spills and report them to Dow AgroSciences Emergency Services at 0800 844 455.

DISPOSAL

Triple rinse empty container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues (liquid and dry) and have an intact legible label may be taken to an Agrecovery collection site. Otherwise crush or puncture and bury in a suitably approved landfill. Do not burn empty containers.

Dispose of this product only by using in accordance to the label, via Agrecovery (visit www.agrecovery.co.nz or call 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical acceptable for disposal), or at an approved landfill.

Dispose of equipment cleaning water onto ground away from susceptible crops and plants.

Do not dispose of this product; spray mix or equipment cleaning water down drains or sewers.

FIRST AID

If swallowed do not induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If splashed in eyes, wash out immediately with water. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

TRANSPORT

Do not carry on a passenger service vehicle.

SAFETY DATA SHEET

A Safety Data Sheet is available from Dow AgroSciences on request. Call Customer Service Toll Free on 0800 803 939 or visit www.dowagrosciences.co.nz.

NOTICE

Important: You **must** read the warning and conditions given on this label. If they are not acceptable, or if you are in doubt as to the proper handling of this product (including its transport, storage, use, disposal, and requirements for approved handlers [if applicable]) then return the unopened product to the supplier at once.

Warning: This product is subject to controls and could be hazardous if handled incorrectly. The **user is responsible** for ensuring that the handling of this product is in accordance with the law (including the *Hazardous Substances and New Organisms Act 1996* and the *Agricultural Compounds and Veterinary Medicines Act 1997*) and with the directions provided. **The Registrant declines** all liability (whether in contract, tort (including but not limited to negligence), or otherwise) to the maximum extent permitted by law in relation to the handling of this product in a manner which is contrary to the directions given or to any applicable Acts, Regulations or Guidelines.

Further information regarding the applicable Acts, Regulations and Guidelines for the proper handling of this product may be obtained by contacting EPA New Zealand (www.epa.govt.nz) or the Ministry for Primary Industries (MPI) (www.foodsafety.govt.nz).

This product is warranted to contain the specified active ingredients within accepted analytical tolerance when packed.

Registered pursuant to the ACVM Act 1997, No P3868.
See www.foodsafety.govt.nz for registration conditions.



Approved pursuant to HSNO Act 1996, EPA Approval Code HSR000829
See www.epa.govt.nz for approval controls.

Registered to: Dow AgroSciences (NZ) Ltd 89 Paritutu Road Private Bag 2017 New Plymouth 4342 Telephone 0800 803 939 www.dowagrosciences.co.nz	EMERGENCY RESPONSE (All hours) Ring from anywhere in New Zealand 0800 844 455 Or Globally +64 6 751 2407	IN A TRANSPORT EMERGENCY DIAL 111 FOR POLICE OR FIRE
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Date of Manufacture:

Batch No.

Barcode

 	Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (triclopyr). Marine pollutant
	UN Number:	3082
	Class:	9
	Packing Group:	III
	HAZCHEM	2X

ANIMAL SAFETY

Poisonous plants (e.g. including but not limited to tutu) may become more palatable after spraying. If concerned that stock health may be affected, stock should be kept away from the area until the plants have died down.

APPLICATION METHODS

Grazon can be applied using conventional ground or aircraft spraying equipment. Flush equipment thoroughly with clean water after use. **Decontaminate before using on plants that are sensitive to Grazon.** Crops susceptible to Grazon include, but are not limited to: peas, lucerne, beans, and other legumes; flowers, fruit trees, grapes, kiwifruit, ornamentals, shade trees and *Pinus* spp., potatoes, tomatoes and vegetables and vines.

MIXING:

Pour the measured quantity of chemical into a partly filled spray tank. Agitate thoroughly while filling and during spraying. The addition of a non-ionic surfactant is recommended under dry or dusty conditions.

Cleaning spray equipment:

Rinsing

After using Grazon:

- Empty the spray tank completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. Drain the spray unit and clean any filters in the tank, pump, lines, hoses and nozzles.
- After cleaning the spray unit as above, quarter fill with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.
- Discard rinse water on land already sprayed or on wasteland away from desirable plants and water sources.

Decontamination

Before applying to sensitive crops with equipment that has been used to apply Grazon:

- Wash the tank and rinse the system as above. Then quarter fill the tank and add a standard alkali based laundry detergent at 500g (or mL)/100L water and circulate throughout the system for at least 15 minutes. If using a concentrated laundry detergent use 250g (or mL)/100L water. Do not use chlorine based cleaners.
- Drain the whole system. Remove filters and nozzles and clean them separately.
- Finally, flush the system with clean water and allow to drain.

Application equipment:**Hand gun:**

Apply the recommended mix to give full coverage of leaves and stems and from all directions. Use a No. 6 – 8 tip. Do not use gun spraying pressures less than 1000 kPa or greater than 2000 kPa.

Aerial application:

Use 200-400 litres water per hectare using a coarse quality spray as defined by the British Crop Protection Council (BCPC) system or the American Society of Agricultural Biological Engineers (ASABE S572). Apply with a calibrated aircraft using half overlap-opposite pass technique. Aerial applications may require some follow up ground treatment.

Ground Boom:

Use 100-200 litres water per hectare as a medium quality spray as defined by the BCPC or ASABE (S572). For difficult-to-control perennial pasture weeds use 200-500 litres water per hectare as a medium quality spray to obtain more complete coverage.

Knapsack:

Apply the recommended mix to give full coverage of leaves and stems.

Mistblower:

Use only where the bush size enables good coverage of the entire bush. Use a marker dye, to check spray coverage.

Stump Swabbing:

Stems should be cut less than 15 cm above the ground. **Immediately** apply Grazon /diesel mixture liberally to the freshly cut stump or paint the cut surface and sides of the stem.

IMPORTANT: In order to select the appropriate nozzles for the required spray quality and operate the equipment to minimize spray drift this product must be applied in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

COMPATIBILITY:

Grazon is compatible with most commonly used pasture herbicides.

WITHHOLDING PERIODS

It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residues Limits of Agricultural Compounds) Food Standards.

Not for use on food crops. Except for animal safety reasons, no withholding period is required when used as directed.

RE-ENTRY

Do not allow entry to treated turf for 8 hours after treatment unless wearing personal protective equipment as recommended above.

RESISTANCE MANAGEMENT

GROUP	03	HERBICIDE
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Grazon is a pyridine carboxylic-acid herbicide (Group 03). Some naturally occurring individual weeds may become resistant when excessive use of the same herbicide occurs.

To maximize the effectiveness of herbicides, products containing alternate modes of action should be used in the spray program. Consult <http://resistance.nzpps.org/> for alternate modes of action and the details of resistance management strategies (if any) for the crops listed on the label.

DIRECTIONS FOR USE:

Grazon controls a range of woody and semi-woody weeds. Follow up treatments on some species may be necessary to obtain more complete control.

Do not use on food crops.

Grazon may be used for the control of brushweeds on the banks of waterways. Avoid contamination of water if applying on banks on waterways. Apply to drains, ditches and irrigation channels only when these waterways are dry.

Grazon will damage clovers at the rates recommended for brushweed control.

COMMENTS:

- For best results applications should be made during soft active growth usually occurring from November to February.
- Use high rates (where applicable) during less active growth stages usually occurring from February to May.
- Spraying when plants are dormant or stressed e.g. hot, dry, frosty, slashed, hard grazed or salty conditions may give variable results. In these situations apply Tordon™ Brushkiller or add Boost™ Penetrant.
- Aerial applications will usually require some follow up ground treatment.

USE RATES:

Weed	GUN mL/100L	AERIAL L/ha	Comments
Blackberry	300 - 600	10	Apply during summer and autumn when bushes are in active growth. Use high rates for control of hard grazed and lower growing types found on the East Coast of the North Island and Northland. Some Northland areas may contain difficult-to-kill species. Variable results may occur if these species are present.
Fennel	300	-	
Gorse, broom	200-300	10	Desiccation: Use 5 L/ha 3-4 months prior to best burning months. Seedlings: Apply at 3L/ha when seedlings have developed past cotyledon stage. Addition of Boost Penetrant will increase the level of gorse control under stressed conditions and minimise the variability. Broom: Spray from early spring until summer while leaf is present.
Old Man's Beard	400	-	
Lupin	150	3	
Russell lupin	200	3-5	
Sweet brier	500	-	
Tutus	300	8	Apply to fresh regrowth and after frond expansion.

STUMP SWABBING:

Barberry, hawthorn, woolly nightshade, wattle, willow.	Mix 1 part Grazon with 20 parts of water or diesel and using a paintbrush or knapsack liberally coat freshly cut surface and stems down to ground level. If using diesel, agitate while filling and during use.
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KNAPSACK:

For all weeds use 6 ml Grazon per litre of water.

MIST BLOWER:

For all weeds use 100 mL/10 L tank. For ULV attachments use 500 mL per 10 L tank, using the No. 3 or 4 hole.

FORESTRY: RADIATA PINE AERIAL RELEASE SPRAYING		
WEEDS	RATE L/ha	COMMENTS
Gorse, broom, Himalaya honeysuckle, wattles, lupin.	1-2	Use the low rate if young pine trees are not dormant. Apply the high rate only to dormant trees and within one year of planting. Some minor tree distortion may occur. Suppression only of the weeds is achieved. Consult your Dow AgroSciences representative before proceeding.

GRASS TURF:

Apply 2 L/ha for the control of hydrocotyle, creeping oxalis and some other broadleaf weeds in turf. Some burning may occur to fine turf grasses. Mulch lawn clippings back onto the lawn for 6 months following treatment. Do not compost lawn clippings or send to a landfill that composts them for 6 months after treatment.

Note: Read the Re-entry section above.