

AGPRO

RAINBOW

HARMFUL

Keep out of reach of children

ECOTOXIC

PRECARE

Herbicide

Contains 500 g/L propyzamide in the form of a suspension concentrate

Selective herbicide for use in lucerne, lettuce, clover seed crops, cotula lawns and bowling greens

GROUP	K1	HERBICIDE
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READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING.

Registered pursuant to the ACVM Act 1997: P009588
See www.foodsafety.govt.nz for registration conditions.
Approved pursuant to HSNO Act 1996 No HSR100618
See www.epa.govt.nz for approval conditions.

Expiry Date:
Batch no:
Net contents: 10L

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HAZARD CLASSIFICATIONS

6.4A, 6.7B, 6.9B, 9.1A, 9.2A

WARNING

TOXICITY: Eye irritant. May cause organ damage from repeated oral exposure at high doses and is suspected of causing cancer. 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.

ECOTOXICITY: Very toxic to aquatic organisms. Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Do not contaminate an aquatic environment with chemical or empty container. Do not spray over or allow drift over, an aquatic environment.

Very toxic in the soil 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).

HANDLING PRECAUTIONS

This product must be under the personal control of a certified handler when:

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

RECORD KEEPING: **Records of use, as described in relevant HSNO regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3L 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.**

PERSONAL PROTECTION: When mixing or applying wear chemical resistant gloves made of materials such as polyvinyl chloride or neoprene, chemical resistant boots, cotton overalls buttoned neck and wrist and a washable hat. Avoid inhaling spray mist. Avoid contact with the eyes.

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 the original container tightly closed and in a locked, dry, cool, well-ventilated area, well away from foodstuffs and stockfeed. Avoid contamination of seeds, fertilisers and other pesticides. Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Stores containing 100L or more of PRECARE require bunding and are subject to signage. See the Hazardous Substances Emergency Management and Identification Regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409) for further information.

SPILLS: Do not touch or walk through any spilled material. Wear protective equipment as recommended above. Stop leak when safe to do so. Dam 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 according to local regulations.

DISPOSAL: Triple rinse empty containers with water and add rinsate to spray tank. If not able to be recycled through a waste management facility then crush and bury in a suitably approved landfill. Do not burn empty containers. 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. If exposed or concerned, seek medical advice.

TRANSPORT

Do not carry more than 1 L on a passenger service vehicle. Quantities of 1 L or less carried on a passenger service vehicle must be contained within sealed packaging.

APPLICATION METHODS

PRECARE should be applied using spray equipment to give good soil coverage. Use 200- 300 L/ha water unless otherwise stated in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409) as a medium to coarse spray quality. To minimise off target drift it is recommended to spray when wind speed is between 3 and 20 km/hr and avoid atmospheric inversion conditions. Apply PRECARE in cool conditions (below 13°C) in the period May - August.

CLEANING SPRAY EQUIPMENT

Rinsing

After using PRECARE

- Empty the spray tank completely and drain the whole system. Thoroughly wash inside the unit with water using a pressure hose. Drain 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 the water 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 using equipment with other products sensitive to PRECARE:

- 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 and circulate through the system for at least 15 minutes. 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.

CROP ROTATION

Residues resulting from the use of PRECARE may adversely affect certain susceptible crops. Do not plant crops, other than those recommended for treatment, within 2-3 months of applying PRECARE. To minimise soil residue effects, treated areas should be ploughed and thoroughly cultivated before sowing following crops. Generally PRECARE residues will have diminished to levels safe to following crops of grasses or cereals within 8-9 months.

DIRECTIONS FOR USE

PRECARE is a selective herbicide recommended for the control of grass weeds in lucerne, lettuce and clover seed crops. It can also be used for the control of Barley Grass and other annual grasses in fence lines, headlands, pasture perimeters, stock camps and waste areas. PRECARE is most active in coarse to medium textured soils of low organic matter and is relatively inactive in peat or mineral soils high in organic matter. The herbicidal activity of PRECARE is through root absorption and for best results applications must be made when the soil is moist and rain imminent, or during rainfall. PRECARE should be applied in cool conditions (below 13°C) in the period May-August. Pasture or lucerne PRECARE be short and closely grazed at the time of application. For best results apply PRECARE to a trash free soil surface.

PRECARE is slow-acting. Susceptible plants may take 3-6 weeks before showing any reaction to treatment. Weeds resistant to PRECARE include Paspalum, Indian Doab, Kikuyu Grass and most

members of the family Compositae (Asteraceae) (e.g. Thistle and Yarrow).

SHAKE CONTAINER WELL BEFORE USE. Invert and roll the container several times to ensure the concentrate product is evenly mixed before preparing the spray mix.

Situation	Weeds	Rate	Comments
Cotula Lawns and Bowling Greens	Annual Poa and other annual grasses	10 mL/100 m ² in 7 L water (140 mL per standard bowling green of 36 x 36 m, in 100 L of water).	Apply in the period May-August
White Clover seed crops	Grasses and suppression of Sorrell	1.5 - 2.5 L/ha	Apply PRECARE during June - August. The presence of surface trash such as cereal stubble can reduce the penetration of PRECARE into the soil. In such cases it is recommended that application be made while rain is falling. The removal of competing grasses including Yorkshire Fog, Soft Brome, Annual Poa, Rough Stalked Meadow Grass, Barren Brome, Vulpia Hair Grass and Sweet Vernal will stimulate White Clover growth and increase seed production.
Established Lucerne	Annual grasses including Barley Grass, Soft Brome, Vulpia Hair Grass and Annual Poa	1.0 L/ha	Apply PRECARE during the period May-August
	Sorrel and perennial grasses such as Kentucky Bluegrass and Browntop	2.5 L/ha	Apply PRECARE in the period May-June
Seeding Lucerne	Germinating grasses and broadleaf weeds including Ryegrass, Annual Poa, Soft Brome, Spurrey, Chickweed and Sorrel Suppression of Perennial weeds growing from roots and rhizomes such as Couch, Browntop and overwintering Sorrel	1.5-2.0 L/ha	Apply PRECARE within 3 days of drilling. If Sorrel from roots, Couch or Browntop are a problem increase the PRECARE rate to 2.5-3.0L/ha.
Fence lines, headlands, stock camps and waste areas	Barley Grass	1.0 - 1.5 L/ha	Apply PRECARE in the period June-August. Use the low rate on closely grazed areas. Under these conditions PRECARE will control seedling Barley Grass and any seedlings that germinate 6-8 weeks after spraying.

Situation	Weeds	Rate	Comments
Lettuce	For the control of annual grasses and broadleaf weeds	3.0 L/ha	Apply PRECARE in the period May-August. Applications should be made just before or after sowing prior to weed emergence. Lettuce is also tolerant to post emergence treatment and applications may be made before or after thinning or transplanting, but should be made prior to weed germination if possible and no later than the seed leaf stage. Do not make more than one application of PRECARE to each crop of lettuce.

WITHHOLDING PERIODS

Lettuce: Do not apply within 40 days of harvest

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

RESISTANCE MANAGEMENT

PRECARE is a benzamide herbicide (Group K1). 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.

Registered to:

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CONDITIONS OF SUPPLY

The use of PRECARE being beyond the control of the suppliers, no warranty expressed or implied is given by the supplier regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and the supplier accepts no responsibility whatsoever resulting from the use of this product.