

# WARNING

KEEP OUT OF REACH OF CHILDREN

# ECOTOXIC

# Precare

## HERBICIDE

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

*Active Ingredient: Contains 500 g/L propyzamide in the form of a suspension concentrate*

## Net Contents: 10L

Registered pursuant to the ACVM Act 1997, No. P9588  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions  
Approved pursuant to HSNO Act 1996, Approval Code HSR100618  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

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# AGPRO

## READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING.



### HAZARD CLASSIFICATION

Eye irritation Category 2, Carcinogenicity Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to soil organisms, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1.

### TOXICITY

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

### 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.

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).

### QUALIFIED HANDLER

To be under the control of a suitably qualified handler when being mixed, loaded or applied.

Batch Number:

Date of Manufacture:

### 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.

### PRECAUTIONS

Do not handle until all safety precautions have been read and understood.

### 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. 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. Wash protective clothing and protective equipment before reuse.

### 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



LBL207.1

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 in accordance with the current version of NZS8409 Management of Agrichemicals. Stores containing 100L or more of **Precare** require secondary containment, signage and an emergency response plan.

## SPILLS

Do not touch or walk through any spilled material. Wear protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain a spill by damming, recover spilt product by absorbing with sawdust or an inert absorbent material then transfer the recovered spilt material to a properly labelled drum. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

## DISPOSAL

Do NOT contaminate any water supply with product or used container.

**Product** -Dispose of this product only by using according to the label or at an approved facility.

**Container** -Triple rinse empty container and add rinsate to the spray tank. Recycle empty container at an approved recycling facility. Otherwise crush and bury empty container in a suitable landfill. Do

NOT use the container for any other purpose.

## 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 in eyes, 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. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If exposed or concerned, seek medical advice.

## EMERGENCY RESPONSE

In a transport emergency call 111, Police or Fire Brigade.

## 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 should 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
<b>Cotula Lawns and Bowling Greens</b>	Annual Poa and other annual grasses	10 mL/100 m <sup>2</sup> 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
<b>White Clover seed crops</b>	Grasses and suppression of Sorrel	1.5-2.5 L/ha	Apply <b>Precare</b> during June - August. The presence of surface trash such as cereal stubble can reduce the penetration of <b>Precare</b> 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.
<b>Established Lucerne</b>	Annual grasses including Barley Grass, Soft Brome, Vulpia Hair Grass and Annual Poa	1.0 L/ha	Apply <b>Precare</b> during the period May-August
	Sorrel and perennial grasses such as Kentucky Bluegrass and Browntop	2.5 L/ha	Apply <b>Precare</b> in the period May-June
<b>Seedling Lucerne</b>	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 <b>Precare</b> within 3 days of drilling. If Sorrel from roots, Couch or Browntop are a problem increase the <b>Precare</b> rate to 2.5-3.0L/ha.
<b>Fence lines, headlands, stock camps and waste areas</b>	Barley Grass	1.0- 1.5 L/ha	Apply <b>Precare</b> in the period June-August. Use the low rate on closely grazed areas. Under these conditions <b>Precare</b> will control seedling Barley Grass and any seedlings that germinate 6-8 weeks after spraying.
<b>Lettuce</b>	For the control of annual grasses and broadleaf weeds	3.0 L/ha	Apply <b>Precare</b> 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 <b>Precare</b> to each crop of lettuce.

**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.**

### **WITHHOLDING PERIODS**

Lettuce: Do not apply within 40 days of harvest.

### **RESISTANCE MANAGEMENT**

<b>GROUP</b>	<b>3</b>	<b>HERBICIDE</b>
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**Precare** is a benzamide herbicide (Group 3). 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.

### **CONDITIONS OF SALE**

As the use of this product is beyond the control of AGPRO NZ Ltd, no warranty expressed or implied, beyond that covered under the Fair Trading Act is given by AGPRO NZ Ltd regarding its suitability, fitness, or efficacy for any purpose for which it is used by the user, whether in accordance with the directions or not. AGPRO NZ Ltd accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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