

Main panel label

POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

ProCarb 800 EC

HERBICIDE

ACTIVE CONSTITUENT: 800 g/L PROSULFOCARB

GROUP	J	HERBICIDE
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Controls/Suppresses Annual Ryegrass (*Lolium rigidum*) and other grass weeds in barley and wheat as specified in the DIRECTIONS FOR USE Table

IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USE

CONTENTS (10 L - 1000 L)

® Trademark

UPL Australia Limited

ABN 76 066 391 384

Suite 416, Level 4, 14 Lexington Drive

Norwest Business Park, Bella Vista NSW 2153

TELEPHONE (02) 8824 7277
BATCH No.

FACSIMILE (02) 8814 6469
DOM:

APVMA Approval No. 85315/112886

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

For refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. When opening the container and preparing the product for use and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical-resistant gloves and face shield or goggles. In addition, when opening the container and mixing and loading, wear a disposable mist face mask covering mouth and nose. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use wash gloves and face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, do NOT induce vomiting.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet available from the supplier.

CONDITIONS OF SALE: UPL Australia Limited accepts responsibility for the consistent quality of the product; however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

Bar Code
Drummuster logo

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DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply to waterlogged soils.
 DO NOT apply if heavy rains or storms that are likely to cause runoff are forecast within 2 days of application.
 DO NOT irrigate treated fields to the point of run off within 3 days of application.
 DO NOT apply more than 2.5 L/ha per single growing season.

Mandatory No-Spray Zones

DO NOT apply if there are aquatic and wetland areas including aquacultural ponds within 20 metres downwind from the application area.
 DO NOT apply if there is non-target vegetation within 10 metres downwind from the application area.

CROP	WEEDS CONTROLLED	RATE/ Ha	CRITICAL COMMENTS
Barley, Wheat	Annual ryegrass, silver grass and barley grass suppression, including Group D resistant populations	2.5 L	<p>An application of ProCarb 800 EC Herbicide applied alone can control lower densities of annual ryegrass i.e. ≤ 100 ryegrass plants /m². Under heavier weed pressure, ryegrass emergence and panicle production will be suppressed but may not be adequately controlled.</p> <p>Apply pre-emergence and incorporate mechanically by sowing operation (IBS). Application should be made to a moist seedbed up to 7 days prior to sowing and sufficient rain to thoroughly wet the top 3 to 4 cm of soil should occur within 10 days after spraying. Avoid soil throw into adjacent seeding rows or sites where furrow walls may collapse. Refer to crop tolerance, incorporation and tillage requirements under GENERAL INSTRUCTIONS.</p>

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIODS

Wheat, Barley

Harvest: NOT REQUIRED WHEN USED AS DIRECTED

Grazing: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 10 WEEKS AFTER APPLICATION

GENERAL INSTRUCTIONS

ProCarb 800 EC Herbicide is a short residual, soil applied, pre-emergent herbicide that is absorbed by the roots and shoots (coleoptile) of germinating seedlings with inhibition of growth in the meristematic region. Foliar uptake is possible but of lower effect. Upstream translocation in the plant occurs but movement in the phloem is very unlikely. Best activity can be expected from applications before or shortly after the germination of target weeds.

Pre-emergent application – ProCarb 800 EC Herbicide should be applied to a moist smooth seedbed free of soil clods and emerged weeds. Efficacy may be reduced by improper incorporation, high levels of crop or trash residues, stones or foreign matter and in areas of extremely high weed seed density such as header rows. For optimal efficacy and crop safety in wheat avoid shallow seeding and ensure accurate seed placement that avoids placement of seed in the herbicide band. Avoid water repellent soils, soils subject to water logging or where furrow walls are likely to collapse. Duration and effectiveness of weed control will depend on use rate, soil type and rainfall or irrigation after application. Adequate rainfall or irrigation should occur within 10 days of application, as this herbicide requires sufficient available soil moisture to ensure soil movement and uptake by emerging weeds.

CROP TOLERANCE The selectivity of ProCarb 800 EC Herbicide is a combination of positional and physiological selectivity. Positional selectivity must be maintained by sowing at an adequate depth below the herbicide band. The physiological selectivity of ProCarb 800 EC Herbicide is given by the ability of cereals to metabolise the herbicide to inactive compounds more rapidly than susceptible weed species. Environmental factors such as rainfall events following application and soil type will influence product movement into the seed zone. Crop damage may result where tank mixed with other herbicides, heavy rainfall follows sowing, in the event of crop stresses including frost or in sandy soils with high leaching potential. Risk of crop damage may be exacerbated where varieties with short coleoptile length are planted in conjunction with the use of some fungicide seed treatments.

TILLAGE SYSTEM

IBS with knife or blade points: Working speed should ensure adequate incorporation of product but avoid soil throw into the adjacent seeding row. Use of press wheels will minimise potential for herbicide to be dragged back into seeding rows. Weed control may be reduced in seeding rows as a result of concentration of herbicide in crop inter-rows. A knife or blade point is defined as being <12 mm in width, having no wings, inverted T or blade and is generally on a minimum 200 mm row spacing. Full disturbance or conventional cultivation, including trailing harrows/prickle chain: Care should be taken to ensure seed placement below the herbicide band as crop damage may result where seed is sown too shallow.

When applied alone, ProCarb 800 EC Herbicide must be incorporated into the soil using the IBS operation within 7 days of application. When used in a tank mix, apply within 24 hours of sowing and mechanically incorporate using the IBS operation.

MIXING ProCarb 800 EC Herbicide is an emulsifiable concentrate that mixes readily with water. Fill the spray tank to one quarter full. Add ProCarb 800 EC Herbicide and continue adding water to make up to the final spray volume. Agitate while mixing and spraying. When tank mixing, wettable powder or water dispersible granule formulations should be added to the tank first followed by suspension concentrates (flowables), water soluble salts then ProCarb 800 EC Herbicide or other emulsifiable concentrate formulations. Maintain thorough agitation during mixing and application. Agitate tank mixes vigorously if allowed to stand. Note: Tank mix spray solutions should NOT be left standing in the vat overnight.

SPRAYER CLEAN UP

After using ProCarb 800 EC Herbicide, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean any filters in the tank, pump, line and nozzles.

To rinse: After cleaning the tank as above, quarter fill the tank with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

COMPATIBILITY

Always refer to registered plant back restrictions on the label of the tank mix partner. Refer to your local UPL Australia Limited representative for more information relating to the compatibility and crop safety of herbicide tank mixtures. ProCarb 800 EC Herbicide is compatible with any 1 of the following insecticides: alpha cypermethrin, bifenthrin, chlorpyrifos, dimethoate and Karate Zeon[®] Insecticide. ProCarb 800 EC Herbicide is compatible with liquid Urea Ammonium Nitrate (UAN) fertilisers provided the spray solution is under constant high agitation. ProCarb 800 EC Herbicide is compatible with the following herbicides Trifluralin 480, Tri-allate 500. As formulations of other manufacturers' products are beyond the control of UPL and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

APPLICATION

DO NOT apply by air.

Wheat and Barley: Apply by ground rig only in a minimum of 50 L water/ha. Water rate selection should be based on soil type and stubble load. Stubble loads above 40 to 50% ground coverage can reduce weed control below acceptable levels. Water volumes greater than 70 L/ha are recommended in order to reduce the impact of stubble in direct drill or minimum tillage systems. Use a nozzle delivering spray quality in the coarse spray range.

RESISTANT WEEDS WARNING

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ProCarb 800 EC Herbicide is a member of the thiocarbamates group of herbicides. Its mode of action is through inhibitors of fat synthesis. For weed resistant management ProCarb 800 EC Herbicide is a Group J herbicide. Some naturally occurring weed biotypes resistant to ProCarb 800 EC Herbicide and other Group J Herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by ProCarb 800 EC Herbicide or any other Group J herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, UPL Australia Limited accepts no liability for any losses that may result from the failure of ProCarb 800 EC Herbicide to control resistant weeds.

RESISTANCE MANAGEMENT Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be made to prevent seed set of surviving weeds. DO NOT make more than one application of a Group J Herbicide with the inhibition of fat synthesis mode of action to a crop in the same season, excluding use of a split application at planting as per the directions for use. If the user suspects that the target weed population is resistant to herbicides with this mode of action, ProCarb 800 EC Herbicide or other Group J Herbicides should not be used. Strategies to minimise the risk of herbicide resistance are available. The above recommendations should be incorporated into an Integrated Weed Management (IWM) Program that used a diverse range of option to manage grass weeds and avoids over reliance on any one method of control. Consult your farm chemical supplier, consultant or UPL Australia Limited.

PRECAUTION

Re-Entry Period: Do not allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray drift onto nearby susceptible plants/crops, cropping lands or pastures. DO NOT allow spray drift onto adjacent fallow land. DO NOT apply on or near shrubs, trees, lawns or crops other than barley and wheat. DO NOT drain or flush equipment on or near desirable trees or other plants, where their roots may extend, or in situations where by movement of soil or by seepage absorption of herbicide may occur. DO NOT sow susceptible crops within 9 months of herbicide application.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Highly toxic to aquatic organisms. DO NOT contaminate streams, rivers or waterways with the chemical or used container. DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly wetlands, water bodies or water courses.

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