

# POISON

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

**TITAN**

# PROSULFOCARB 800EC HERBICIDE

ACTIVE CONSTITUENT: 800g/L PROSULFOCARB

GROUP **15** HERBICIDE

For the control of Annual Ryegrass in Wheat and Barley and other grass and broadleaf weeds in Wheat  
as per the Directions for Use.

APVMA Approval No.: 84685/132018

Pack Size: 5L-1000L



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IN A TRANSPORT EMERGENCY

## DIAL 000

POLICE OR FIRE BRIGADE

TRANSPORT AND HANDLING  
NOT A DANGEROUS GOOD  
ACCORDING TO THE AUSTRALIAN  
DANGEROUS GOODS (ADG) CODE  
FOR TRANSPORT BY ROAD AND RAIL

## DIRECTIONS FOR USE

**Restraints:** DO NOT apply by air.  
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.

CROP	WEEDS	RATE/ha	CRITICAL COMMENTS
Wheat, Barley	Annual Ryegrass ( <i>Lolium rigidum</i> ) suppression, including Group 3 resistant populations	2.5L	A standalone application of TITAN Prosulfocarb 800EC Herbicide can control lower densities of annual ryegrass i.e. $\leq 100$ ryegrass plants/m <sup>2</sup> . Under heavier weed pressure, ryegrass emergence and panicle production will be suppressed but may not be adequately controlled. Apply pre-emergence using the incorporated by sowing (IBS) operation.  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 4cm 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.
	Control of Annual Ryegrass ( <i>Lolium rigidum</i> ), including Group 3 resistant populations	3.0L	
Wheat	Annual Ryegrass ( <i>Lolium rigidum</i> ), Crassula, Red and White Fumitory, Paradoxa Grass (Canary Grass), <i>Phalaris</i> spp., Sand Fescue, soil surface Wild Oats, Toad Rush, Wireweed (Hogweed)  Suppression of Brome Grass, Deadnettle, Rough Poppy and Yellow Burr Weed	2.5L plus 1.5L TITAN Trifluralin 480 Selective Herbicide	Application with TITAN Trifluralin 480 Selective Herbicide has been shown to improve the ryegrass control of TITAN Prosulfocarb 800EC Herbicide where trifluralin resistance is not dominant. This mixture is also recommended for control or suppression of additional weeds and/or where good soil moisture cannot be assured. Apply pre-emergence using the incorporated by sowing (IBS) operation.  Observe the TITAN Trifluralin 480 Selective Herbicide label guidelines for minimum tillage knife/blade point systems. Application should be made to a moist seedbed up to 24 hours prior to sowing and sufficient rain to thoroughly wet the top 3 to 4cm of soil should occur within 10 days after spraying.  Avoid soil throw into adjacent seeding rows or sites where furrow walls may collapse. Attention to sowing speed and soil throw is important to ensure crop safety.  When applying TITAN Prosulfocarb 800EC Herbicide with TITAN Trifluralin 480 Selective Herbicide, there is a risk of crop injury.  Always refer to use recommendations on TITAN Trifluralin 480 Selective Herbicide label regarding soil type restrictions and incorporation timing and rate selection under different tillage systems. Refer to tank mixes, crop tolerance, incorporation and tillage requirements under GENERAL INSTRUCTIONS.

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

## WITHHOLDING PERIODS

**HARVEST: NOT REQUIRED WHEN USED AS DIRECTED**

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

## GENERAL INSTRUCTIONS

TITAN Prosulfocarb 800EC 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.

TITAN Prosulfocarb 800EC 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 avoid shallow seeding and ensure accurate seed placement that avoids placement of seed in the herbicide band.

Avoid water repellent soils, soils subject to waterlogging 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 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 TITAN Prosulfocarb 800EC Herbicide in cereals is a combination of positional and physiological selectivity. Positional selectivity must be maintained by sowing at adequate depth below the herbicide band. The physiological selectivity of TITAN Prosulfocarb 800EC 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.

## INCORPORATION AND TILLAGE REQUIREMENTS

**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 <12mm in width, having no wings, inverted T or blade and is generally on a minimum 200mm 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. Consult TITAN Trifluralin 480 Selective Herbicide label for tank mix rate selection. When applying standalone, TITAN Prosulfocarb 800EC Herbicide must be incorporated into the soil using the IBS operation within 7 days of application. When used in a tank mix with trifluralin, apply within 24 hours of sowing and mechanically incorporated using the IBS operation.

## MIXING

TITAN Prosulfocarb 800EC Herbicide is an emulsifiable concentrate that mixes readily with water. Fill the spray tank to one quarter full. Add TITAN Prosulfocarb 800EC 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



TITAN Prosulfocarb 800EC 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.

#### COMPATIBILITY

As formulations of other manufacturer's products are beyond the control of TITAN AG Pty Ltd and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities. For more information, please contact your local TITAN AG representative.

ALWAYS REVIEW LABEL GUIDELINES FOR THE TANK MIX PARTNER PRIOR TO APPLYING WITH TITAN PROSULFOCARB 800EC HERBICIDE.

#### APPLICATION

Apply by ground rig only in a minimum of 50L 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 70L/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 medium to very coarse spray range. DO NOT apply by air.

#### TANK MIXES

Tank mixtures of TITAN Prosulfocarb 800EC Herbicide with TITAN Trifluralin 480 Selective Herbicide are recommended where annual ryegrass control is required and/or for control of additional weed species not controlled by a standalone application of TITAN Prosulfocarb 800EC Herbicide.

Application of TITAN Prosulfocarb 800EC Herbicide with TITAN Trifluralin 480 Selective Herbicide for Annual Ryegrass may not effectively control high densities of Group 3 resistant populations nor delay the development of herbicide resistance.

Tank mixing of herbicides is only effective in managing resistance where a lethal dose rate of each herbicide is applied.

#### RESISTANT WEEDS WARNING

TITAN Prosulfocarb 800EC Herbicide is a member of the thiocarbamates group of herbicides. This product has the inhibitors of fat synthesis mode of action. For weed resistance management, this product is a Group 15 herbicide. Some naturally occurring weed biotypes resistant to this product and other Group 15 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 this product or other Group 15 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of this product 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 the surviving weeds. DO NOT make more than 1 application of a Group 15 herbicide with the inhibition of fat synthesis mode of action to a crop in the same season. If the user suspects that the target weed population is resistant to herbicides with this mode of action, TITAN Prosulfocarb 800EC Herbicide or other Group 15 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 uses a diverse range of options to manage grass weeds and avoids over reliance on any one method of control. Advice as to strategies and alternative treatments that can be used should be obtained from your local supplier, consultant, local Department of Agriculture, Primary Industries Department or TITAN Ag Pty Ltd representative.

#### PRECAUTIONS

**Re-entry Period:** DO NOT allow entry into treated areas until the spray has dried unless wearing cotton overalls (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 sow susceptible crops within 9 months of herbicide application. DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures. DO NOT allow spray to drift onto adjacent fallow land. DO NOT apply on or near shrubs, trees, lawns or crops other than wheat or barley. 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 the herbicide may occur.

#### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

HIGHLY TOXIC TO AQUATIC ORGANISMS. DO NOT contaminate streams, rivers or waterways with the chemical or used containers. DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto adjacent areas, particularly wetlands, waterbodies or watercourses.

#### 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 500mm 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.

**Returnable 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 prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a hat, elbow-length chemical resistant gloves, goggles and 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 131126; New Zealand 0800 764 766. If swallowed, DO NOT induce vomiting.

#### SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Prosulfocarb 800EC Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit [www.titanag.com.au](http://www.titanag.com.au)

**CONDITIONS OF SALE:** TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Combustible liquid. Harmful if swallowed. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects. **Precautionary Statements:** Keep away from flames and hot surfaces. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. **IF SWALLOWED:** Immediately call a POISON CENTER/ doctor. **IF ON SKIN:** Wash with plenty of water. Specific treatment (see on this label). Rinse mouth. Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use to extinguish: CO<sub>2</sub>, powder or water spray. Collect spillage. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national regulations.

