

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

CropSure Projectile 800 Herbicide

ACTIVE CONSTITUENT: 800 g/L PROSULFOCARB
SOLVENT: 114.8 g/L LIQUID HYDROCARBON

GROUP	15	HERBICIDE
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For control of Annual Ryegrass (*Lolium rigidum*) and other grass and broadleaf weeds in Barley and Wheat as specified in the Directions for Use Table

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE OPENING OR USING THIS PRODUCT

NET CONTENTS: 1 L – 2500 L

CropSure Pty Ltd
18 Raymond Road
Laverton North
Victoria 3026
ABN: 17 643 829 190
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Phone: 03 9931 2200
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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.

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, preparing product, and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves, and face shield or goggles. In addition, when opening the container, mixing, and loading, wear disposable mist face mask covering mouth and nose. If product on skin, immediately wash area with soap and 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, New Zealand 0800 764 766. If in eyes wash out immediately with water.

SAFETY DATA SHEET (SDS)

Additional information is listed in the Safety Data Sheet (SDS), which is available from the supplier.

CONDITIONS OF SALE

CropSure Pty Ltd shall not be liable for any loss, injury, damage or death whether consequential or otherwise, whatsoever or whosoever arising whether through negligence or otherwise, in connection with the sale, supply, use or application of this product, except for any provisions or rights under the Australian Consumer Law which cannot be excluded. The supply of this product is on the express condition that the purchaser does not rely on CropSure Pty Ltd skill of judgement in the purchasing or using the same and every person using this product does so at their own risk absolutely. The Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions. This product is designed to be only used according with the label directions.

IN EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE	24HR EMERGENCY RESPONSE: AU +61 1800 951 288 NZ +64 800 700 112
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APVMA Approval No.: 93636 / 140028

Batch Number:

Date of Manufacture:

Combustible liquid. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Do not breathe fumes, mists, vapours or spray. Avoid breathing fumes, mists, vapours or spray. Do not get in eyes, on skin, or on clothing. Wash contacted areas thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing and eye or face protection. If swallowed: do NOT induce vomiting. Give a glass of water. Immediately call a POISON CENTRE or doctor/physician. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice. In case of fire: Use carbon dioxide, dry chemical, foam, to extinguish. Store locked up. Protect from sunlight. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep cool. Dispose of contents and containers as specified on the registered label.

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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.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

Mandatory No-Spray Zones

Application rate	Mandatory downwind buffer zones (metres)	
	Natural aquatic areas	Vegetation areas
Up to maximum label rate	20	10

CROPS	WEEDS	RATE/ha	CRITICAL COMMENTS
Barley, Wheat	Annual Ryegrass (<i>Lolium rigidum</i>) including control of Group 3 resistant populations, Suppression of Silver Grass (<i>Vulpia</i> spp.)	2.5 L	<p>A standalone application of CropSure Projectile 800 Herbicide can control lower densities of annual ryegrass i.e. \leq 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-emergent 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. DO NOT use less than 2.5 L/ha CropSure Projectile 800 Herbicide where Group 3 resistance is confirmed or suspected. Use of CropSure Projectile 800 Herbicide below 2.5 L/ha alone or in a tank mix WILL NOT be effective in the control of Group 3 resistant Annual Ryegrass nor to delay the onset of herbicide resistance development. Refer to Tank Mixes under General Instructions. Apply pre-emergent and incorporate mechanically by sowing operation (IBS). 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 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.</p> <p>Use higher rates for Sand Fescue.</p> <p>Use 1.5 L/ha of a 480 g/L trifluralin in minimum tillage knife/blade point systems only as per trifluralin label. Attention to sowing speed and soil throw is important to ensure crop safety. This is especially critical at higher use rates. Risk of crop injury may increase where greater than 1 L/ha trifluralin 480 g/L is applied with 2.5 L/ha CropSure Projectile 800 Herbicide. Always refer to use recommendations on trifluralin label regarding soil type restrictions and incorporation timing and rate selection under different tillage systems. This mixture is recommended for control or suppression of additional weeds, on sandy soils where product movement into the seeding zone poses a crop safety risk or where good soil moisture cannot be assured. Refer to crop tolerance, incorporation and tillage requirements under General Instructions.</p>
	Annual Ryegrass (<i>Lolium rigidum</i>), Paradoxa Grass (Canary Grass), <i>Phalaris</i> spp., Red and White Fumitory, Sand Fescue, Soil surface Wild Oats, Wireweed (Hogweed),	1.5 to 2.5 L plus 0.8 to 1.5 L Of a 480 g/L trifluralin	
	Suppression of Barley Grass (<i>Hordeum</i> spp.), Brome Grass, Deadnettle, Rough Poppy, Silver Grass (<i>Vulpia</i> spp.) Yellow Burr Weed	2.5L plus 1.5L of a 480 g/l trifluralin	

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

WITHHOLDING PERIODS:

Barley, Wheat

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

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

GENERAL INSTRUCTIONS

CropSure Projectile 800 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.

CropSure Projectile 800 Herbicide should be applied to a moist smooth seedbed free of soil clods and emerged weeds. Product 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 barley and 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 weed seeds.

Crop Tolerance

The selectivity of CropSure Projectile 800 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 CropSure Projectile 800 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 injury may occur when used in sandy soils with high leaching potential or in all soil types when heavy rainfall is received between sowing and emergence. Crop injury may also result from tank mixes with other herbicides. Shallow seeding is not recommended due to the greater potential for movement of herbicide within close proximity of the emerging crop. Conditions resulting in poor root development or the occurrence of crop stresses including waterlogging, drought, frost, nutrient deficiency or disease can result in unacceptable crop damage and yield loss as a result of root uptake of herbicide. Although crop tolerance has been clearly demonstrated in a wide range of registered crop cultivars, differences in relation to the tolerance of recent and future release cultivars may exist. 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. Consult trifluralin label for tank mix rate selection.

PRODUCT MUST BE INCORPORATED INTO THE SOIL 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

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

As formulations of other manufacturer's products are beyond the control of and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

For more information, please contact your local representative.

ALWAYS REVIEW LABEL GUIDELINES FOR THE TANK MIX PARTNER PRIOR TO APPLYING WITH CropSure Projectile 800 Herbicide.

APPLICATION

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 droplet size category. DO NOT apply by air.

RESISTANT WEEDS WARNING

GROUP	15	HERBICIDE
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CropSure Projectile 800 Herbicide is a member of the thiocarbamates group of herbicides. This product has the inhibitors 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, CropSure 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, CropSure Projectile 800 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 representative.

Tank Mixes

Application of CropSure Projectile 800 Herbicide at less than 2.5 L/ha when tank mixing for Annual Ryegrass control WILL NOT be effective in the control of Group 3 resistant populations nor to delay the onset of herbicide resistance development. Tank mixing of herbicides is only effective in managing resistance where a lethal dose rate of each herbicide is applied. Whilst a tank mixture of 2 herbicides of differing modes of action at sub-lethal dose rates may still provide a high level of weed control, the risk of developing resistance to multiple modes of action is increased. Tank mixtures of CropSure Projectile 800 Herbicide with trifluralin are only recommended where targeting additional weed species, on sandy soils where soil moisture is limiting or where product movement into the seeding zone poses a crop safety risk.

PRECAUTION

Re-entry Period: DO NOT enter 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 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 barley or 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 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 meteorological conditions or from spraying equipment which could be expected to 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 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.

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, preparing product, and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves, and face shield or goggles. In addition, when opening the container, mixing, and loading, wear disposable mist face mask covering mouth and nose. If product on skin, immediately wash area with soap and 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, New Zealand 0800 764 766. If in eyes wash out immediately with water.

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IN EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE	24HR EMERGENCY RESPONSE: AU +61 1800 951 288 NZ +64 800 700 112
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