



Product Name: Crusader GoDRI Herbicide  
APVMA Approval No: 82791/106777

Label Name:	Crusader GoDRI Herbicide
Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	ACTIVE CONSTITUENT: 215 g/kg PYROXSULAM CROP SAFENER: 451.5 g/kg CLOQUINTOCET
Mode of Action:	GROUP <b>B</b> HERBICIDE
Statement of Claims:	A water dispersible granule formulation for post-emergent control of grass and broadleaf weeds in triticale and wheat, excluding durum varieties, as specified in the Directions for Use.
Net Contents:	1.4 kg 2.8 kg
Restraints:	<p>DO NOT apply to crops or weeds which may be stressed due to prolonged periods of extreme cold, moisture stress (water-logging or drought) or previous herbicide treatment, as crop damage or reduced levels of control may result (see crop safety warning below). DO NOT spray if rain is likely to occur within 6 hours. DO NOT apply later than the 1st node (Z31) stage of the crops. DO NOT apply by air. DO NOT use a higher spray system pressure than the maximum the manufacturer specifies for the selected nozzle to deliver the droplet size category required in the label Spray Drift. DO NOT apply to durum varieties of wheat. DO NOT double overlap or double spray crop. DO NOT apply to paddocks where there is a high risk of weeds resistant to Group B herbicides.</p> <p>SPRAY DRIFT RESTRAINTS DO NOT apply with spray droplets smaller than a COARSE spray droplet size category according to 'APVMA Compliance Instructions for Mandatory COARSE or Larger Droplet</p>

	<p>Size Categories' located under this title in the GENERAL INSTRUCTIONS section of this label.</p> <p>DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour as measured at the application site.</p> <p>DO NOT apply during surface temperature inversion conditions at the application site.</p> <p>Users of this produce MUST make an accurate written record of the details of each spray application within 24 hours following application, and must KEEP this record for at least 2 years.</p> <p>The spray application details that must be recorded are:</p> <p>1. date with start and finish times of application 2. location and address and paddock(s) sprayed</p> <p>3. full name of this product 4. amount of product used per hectare and number of hectares applied to 5. crop or situation and weed or pest 6. wind speed and direction during application 7. air temperature and relative humidity during application 8. nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application 9. name and address of person applying this product. (Additional records details may be required by the state or territory where this product is used.)</p> <p><b>DOWNWIND MANDATORY NO-SPRAY ZONES</b></p> <p>DO NOT apply if there are aquatic or wetland areas including aquacultural ponds, surface streams and rivers downwind from the application area and within the mandatory no-spray zones shown in the table below:</p> <p>Table 1 - No-spray zones for protection of the aquatic environment For ground application From 3 to 20 kilometres per hour: 5 metres</p> <p>DO NOT apply if there are sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitat downwind from the application area and within the mandatory no-spray zones shown in the table below:</p> <p>Table 2 - No-Spray zones for protection of the terrestrial environment For ground application From 3 to 20 kilometres per hour: 40 metres</p>
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Directions for Use:	This section contains file attachment.
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Other Limitations:	
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Withholding Periods:	<p>When using Crusader GoDRI in a tank mix with another product, observe whichever Harvest or Grazing/Stockfood Withholding Period that is the longer.</p> <p>Harvest: NOT REQUIRED WHEN USED AS DIRECTED.</p> <p>Grazing/Stockfood: DO NOT GRAZE OR CUT TREATED CROPS FOR STOCK FEED FOR 4 WEEKS AFTER APPLICATION.</p> <p>Rinse water should be discharged onto a designated disposal area or, if this is unavailable, onto unused land away from desirable plants and their roots and watercourses.</p>
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Trade Advice:	
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General Instructions:	This section contains file attachment.
Resistance Warning:	<p>Crusader GoDRI Herbicide contains a member of the triazolopyrimidine sulfonanilide group of herbicides. The product has the acetolactate synthase (ALS) inhibitor mode of action. For weed resistance management, the product is a Group B herbicide. Some naturally occurring weed biotypes resistant to the product and other Group B 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 B herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Dow AgroSciences accepts no liability for any losses that may result from the failure of the product to control resistant weeds.</p> <p>Do not rely solely on Crusader GoDRI or other Group B herbicides for weed control. Always use an Integrated Weed Management program with herbicides that have other modes-of-action, together with non-chemical methods of control. CropLife Australia resistance management strategies are available from local agricultural chemical suppliers or at <a href="http://www.croplifeaustralia.org.au">www.croplifeaustralia.org.au</a>. Use these strategies to limit the build up of resistant weeds on your farm.</p>
Precautions:	Re-entry Period: DO NOT re-enter treated areas until spray has dried, unless wearing cotton overalls buttoned to the neck and wrists and gauntlet length chemical resistant gloves.
Protections:	<p><b>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</b> DO NOT apply under weather conditions or from spraying equipment that may cause spray to drift onto nearby native and other non-target plants or susceptible plants/crops, cropping lands or pastures.</p> <p><b>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</b> Crusader GoDRI is highly toxic to algae and aquatic plants. DO NOT contaminate streams, rivers or waterways with chemical or used containers. DO NOT apply under meteorological conditions or from spraying equipment that could be expected to cause spray to drift onto wetlands, natural surface waters, neighbouring properties or other sensitive areas. For ground application, a buffer zone of 5 metres is required between the downwind edge of the boom and the closest edge of waterbodies.</p>
Storage and Disposal:	<ul style="list-style-type: none"> <li>• Store in the tightly closed original container in a securely locked place, out of direct sunlight.</li> <li>• DO NOT store near food, feedstuffs, fertilisers or seed.</li> </ul> <p>This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple or pressure rinse container for disposal. Dispose of rinsate by adding to the spray tank. Do not dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management site. The cap should not be replaced but may be taken separately. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal 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</p>

	and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.
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Safety Directions:	<ul style="list-style-type: none"> <li>• May irritate the eyes.</li> <li>• Avoid contact with the eyes.</li> <li>• If product in eyes, wash out immediately with water.</li> <li>• Avoid inhaling dust.</li> <li>• When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist, and elbow-length chemical resistant gloves.</li> <li>• Wash hands after use.</li> <li>• After each day's use wash gloves and contaminated clothing.</li> </ul>
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First Aid Instructions:	If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131126.
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First Aid Warnings:	
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**Table 1. Grass weed control or suppression**

For application to wheat and triticale (excluding durum varieties) only from 3 leaf up to 1 <sup>st</sup> node of the crop.			
WEEDS	WEED STAGE	RATE g/ha	CRITICAL COMMENTS
<b>Control</b> Brome grass ( <i>Bromus diandrus</i> ), Phalaris spp., Wild oats ( <i>Avena</i> spp.)  <b>Suppression</b> Annual ryegrass ( <i>Lolium rigidum</i> ) Barley grass ( <i>Hordeum leporinum</i> ) Silver grass ( <i>Vulpia</i> spp.)	1-3 leaf (pre-tillering)	70	<b>Always use BS1000 or Chemwet 1000 at 250 mL/100 L.</b>  <b>Weed suppression:</b> Weeds may only be suppressed where densities of > 150 plants/m <sup>2</sup> are treated and may survive treatment, but will usually show reduced growth and seed set. Always use together with other methods of control to stop weed seed set.

**Table 2. Broadleaf weed control**

For application to wheat and triticale (excluding durum varieties) only from 3 leaf up to 1 <sup>st</sup> node of the crop.			
WEED	WEED STAGE & SIZE	RATE g/ha	CRITICAL COMMENTS
Bedstraw ( <i>Galium tricornutum</i> )	Cotyledon - 6 whorl Up to 10cm	70	<b>Always use BS 1000 or Chemwet 1000 at 250 mL/100 L.</b>  <b>High weed density:</b> For high densities (> 50/m <sup>2</sup> ), use tank-mixes and highest rate of partner herbicide where a range is stated.  <b>Crop stage for tankmixes:</b> treat crop at the labelled growth stage for the partner herbicide.
Volunteer Canola ( <i>Brassica napus</i> )	Cotyledon - 4 leaf Up to 10 cm		
Capeweed ( <i>Arctotheca calendula</i> )	Cotyledon - 6 leaf Up to 12 cm	70 + 40-60 g of Lontrel 750 SG + 300mL LVE 600 MCPA <b>or</b> + 500 mL Bromoxynil/MCPA (200 + 200 g/L) <b>or</b> + 500 mL Bromoxynil / MCPA + 40 g Lontrel 750 SG	<b>MCPA tankmixes:</b> LVE 600 MCPA at 400 mL/ha must be applied from 5 leaf stage onwards in NSW and Qld.
Chickpea ( <i>Cicer arietinum</i> )	Cotyledon - 6 leaf Up to 15 cm	70	
Climbing buckwheat (Black bindweed) ( <i>Fallopia convolvulus</i> )	Cotyledon - 4 leaf Up to 10 cm	70 + 375-500 mL Hotshot Herbicide	
Deadnettle ( <i>Lamium amplexicaule</i> )	Cotyledon - 4 leaf Up to 5cm	70	
Doublegee or spiny emex ( <i>Emex australis</i> )	Cotyledon - 4 leaf Up to 10 cm	70 + 5g Metsulfuron (600g/kg)	
Faba bean ( <i>Vicia faba</i> )	Cotyledon - 4 leaf Up to 10 cm	70	
Field pea ( <i>Pisum sativum</i> )	Cotyledon - 6 node Up to 12 cm		
Indian hedge mustard ( <i>Sisymbrium orientale</i> )	Cotyledon - 6 leaf Up to 10 cm	70 + 300 – 400 mL LVE 600 MCPA	

Table 2 continued

WEED	WEED STAGE & SIZE	RATE g/ha	CRITICAL COMMENTS
Lentil ( <i>Lens esculentum</i> )	Cotyledon - 6 leaf Up to 8 cm	70	continued
Lupins - suppression ( <i>Lupinus albus</i> )	Cotyledon - 4 leaf Up to 6 cm		
Medic spp.	Cotyledon - 4 leaf Up to 8 cm		
Prickly lettuce ( <i>Lactuca serriola</i> )	Cotyledon - 6 leaf Up to 10 cm	70 + 400 mL LVE 600 MCPA	
Small flowered mallow - suppression ( <i>Malva parviflora</i> )	Cotyledon - 4 leaf Up to 10 cm	70 + 400 mL LVE 600 MCPA or + 300 mL LVE 600 MCPA + 5 g Metsulfuron (600g/kg)	<b>Mallow suppression –</b> ensure excellent crop competition for best suppression.
Sowthistle ( <i>Sonchus oleraceus</i> )	Cotyledon - 4 leaf Up to 10 cm	70 + 500 mL Hotshot + 400 mL LVE 600 MCPA	
Subclover ( <i>Trifolium subterraneum</i> )	Cotyledon - 4 leaf Up to 5 cm	70	
Turnip weed ( <i>Rapistrum rugosum</i> )	Cotyledon - 4 leaf Up to 10 cm		
Vetch - suppression ( <i>Vicia sativa</i> )	Cotyledon - 4 leaf Up to 10 cm		
Wild radish ( <i>Raphanus raphanistrum</i> )	Cotyledon - 4 leaf Up to 15 cm	70 + 300 – 400 mL LVE 600 MCPA	
Wireweed ( <i>Polygonum aviculare</i> )	Cotyledon - 4 leaf Up to 8 cm	70	

NB – only volunteer triazine tolerant and conventional canola will be controlled.

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

Crusader GoDRI is a selective triazolopyrimidine sulfonanilide herbicide. It is a foliar herbicide for post-emergence use in wheat. It will not reliably control weeds that emerge after treatment. Best results are achieved under good growing conditions. Treatment of crop or weeds that are stressed must be avoided.

**Adjuvant:** Always use BS1000 or Chemwet 1000 at 250 mL/100 L spray volume.

### Crop Safety

Yield is normally unaffected by treatment with Crusader GoDRI Herbicide or tank mixes. However, transient stem shortening and crop yellowing may occur. Symptoms may be worse where the crop is stressed, heavy rain/irrigation follows application, crops are grown in alkaline soil conditions, crop has poor root growth, double overlap of spray has occurred or a combination of any or all the above. Where crop stress occurs, a longer period may be required for recovery, especially if the crop is stressed by root or foliar disease, poor nutrition, water logging, drought or cold stress. In severe cases and seasons where a hot, dry spring occurs, flowering may be delayed and yield may be reduced. Crusader GoDRI Herbicide has been tested over major commercially grown crop varieties, but not all of those that may be grown. For information on crop variety selectivity consult your local reseller or Dow AgroSciences. **Note:** Application of another Group B herbicide to the same crop before or after Crusader GoDRI's use may result in more injury than described above. Consult Dow AgroSciences for advice.

### Crop Rotation Recommendations

Safe recropping periods apply for all crops following Crusader GoDRI application. Planting crops 'dry' without the minimum rainfall (as stated in the table below) increases the risk of injury to susceptible crops. Susceptible crops include, but are not limited to, those listed in the table below.

#### Plant-back Periods

Crop to be sown	Application rate (g product/ha)	Minimum time from application to planting	Minimum rainfall requirement from application to planting
Barley, oats, wheat, canola, chickpeas, faba beans, field peas, lupins, lucerne, medics, ryegrass, subclover, vetches, white clover. Note: For all other crops, consult your reseller or local Dow AgroSciences' representative.	70 g	9 months	25 mm rain or more

\*on shallow, duplex or low organic matter soils and/or where rain or irrigation in one fall or over subsequent days is insufficient to thoroughly wet soil to 10 cm for one week or more in the summer to autumn period, extended plant-back times will apply and susceptible crops should not be planted for at least 12 months after application of Crusader GoDRI Herbicide. Contact Dow AgroSciences, your farm chemical supplier, consultant or local Department of Agriculture for advice.

### Application

Apply in 80 – 100L/ha water by ground boom.

### APVMA compliance instructions for mandatory COARSE or larger droplet size categories

#### Important information

These instructions inform those using this chemical product how to lawfully comply with the

requirement of a COARSE or larger spray droplet size category for spray application.

Spray droplet size categories are defined in the ASAE S572 Standard (newer name may also be shown as ASABE) or the BCPC guideline. Nozzle manufacturers may refer to one or both of these documents, to identify droplet size categories; however, for a nozzle to comply with this requirement, the manufacturer must refer to at least one.

**Complying with the label requirement to use a specific droplet size category means using the correct nozzle that will deliver that droplet size category under the spray operation conditions being used. The APVMA has approved only the following specific methods for choosing the correct nozzle. Use one of the methods specified in these instructions to select a correct nozzle to deliver a COARSE or larger droplet size category.**

#### **Instructions for ground application—for COARSE droplet size or larger categories**

##### **Mandatory instructions for ground applications**

**USE ONLY** nozzles that the nozzles' manufacturer has rated to deliver a COARSE, a VERY COARSE or an EXTREMELY COARSE droplet size category, as referenced in ASAE S572 or BCPC. Choose a nozzle that is specified to provide the droplet size category required in the label **Spray Drift Restraints**.

**DO NOT** use a higher spray system pressure than the maximum the manufacturer specifies for the selected nozzle to deliver the droplet size category required in the label Spray Drift

##### **Mixing**

Measure the required amount of Crusader GoDRI granules by weighing on scales or using measuring device. Crusader GoDRI Herbicide should be added to the spray tank with simultaneous agitation to ensure adequate granule dispersion. If agitation is limited, premix the Crusader GoDRI Herbicide in a bucket or hopper before adding to the main tank. Once diluted correctly, Crusader GoDRI Herbicide remains in suspension. Ensure that agitation in the spray tank is maintained at all times during mixing and application.

##### **Tankmixing**

If Crusader GoDRI is to be mixed with other products, use the following order making sure that each addition is fully mixed before adding the next one:

1. **Quarter** fill the spray tank, maintaining agitation,
2. Add Crusader GoDRI granules and ensure granule is fully dispersed, (as described above),
3. Add water to half fill the spray tank,
4. Add wettable powders, water dispersible granules or suspension concentrates,
5. Add emulsifiable concentrates,
6. Add non ionic surfactants or other adjuvants when spray tank is half-full,
7. Add water to bring to the final spray volume.

Crusader GoDRI Herbicide should be mixed and sprayed out within 8 hours.

##### **Cleaning Spray Equipment**

After using Crusader GoDRI Herbicide, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean tank, pump, line and nozzle filters.

**Partial Cleaning - Rinse only** - before using sprayer to treat triticale or wheat:

After cleaning the tank as above, quarter fill the tank with clean water and circulate through the pump, line, hoses and nozzles. Drain and repeat procedure twice.

**Complete Cleaning - Decontamination** - before using sprayer to treat crops that are susceptible to Crusader GoDRI Herbicide:



After cleaning the tank as above, quarter fill the tank with clean water and add a liquid alkali detergent at 500 mL/100 L water and circulate throughout the system for at least fifteen minutes. Drain the whole system. Then remove filters and nozzles and clean separately. Finally rinse inside the tank thoroughly using a pressure hose and flush system with clean water and allow to drain. Note: Chlorine-based cleaners are NOT recommended. These tank cleaning recommendations are for Crusader GoDRI only. Please consult tankmix partner labels to determine requirement for decontamination for other products.

## Compatibility

Crusader GoDRI Herbicide is compatible with the following:

**Broadleaf herbicides:** metsulfuron (eg. Ally® Herbicide), bromoxynil, bromoxynil-MCPA, Paradigm™ Herbicide, Lontrel™ Advanced Herbicide, Lontrel 750 SG Herbicide, Dow AgroSciences LVE 600 MCPA, MCPA LVE, Starane™ Advanced Herbicide, Jaguar Herbicide, Tigrex herbicide, Precept herbicide

**Adjuvants:** Always use either BS1000, Chemwet 1000 at 250 mL/100L spray volume or Uptake Spray oil at 500 mL/100L spray volume for best performance of Crusader GoDRI Herbicide. If mixing with other herbicides refer to label for appropriate adjuvant. Not all adjuvants are of equal quality. Consult Dow AgroSciences before selecting any other alternatives.