

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



Dow AgroSciences

CrusaderTM GoDRITM

Herbicide

ACTIVE CONSTITUENT: 215 g/kg PYROXSULAM
CROP SAFENER: 451.5 g/kg CLOQUINTOCET

GROUP B HERBICIDE

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.

Dow AgroSciences Australia Limited ABN 24 003 771 659
20 Rodborough Road FRENCHS FOREST NSW 2086
www.dowagrosciences.com.au

CUSTOMER SERVICE TOLL FREE 1-800 700 096

® TM Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow



DIRECTIONS FOR USE

RESTRAINTS

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.

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 Size Categories' located under this title in the **GENERAL INSTRUCTIONS** section of this label.

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour as measured at the application site.

DO NOT apply during surface temperature inversion conditions at the application site.

Users of this product **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 two (2) years.

The spray application details that must be recorded are:

1. date with start and finish times of application **2.** location and address and paddock(s) sprayed **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.)



DOWNWIND MANDATORY NO-SPRAY ZONES

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:

TABLE 1: NO-SPRAY ZONES FOR PROTECTION OF THE AQUATIC ENVIRONMENT

FOR GROUND APPLICATION	
From 3 to 20 kilometres per hour	5 metres

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:

TABLE 2: NO-SPRAY ZONES FOR PROTECTION OF THE TERRESTRIAL ENVIRONMENT

FOR GROUND APPLICATION	
From 3 to 20 kilometres per hour	40 metres

TABLE 3. GRASS WEED CONTROL OR SUPPRESSION

For application to wheat and triticale (excluding durum varieties) only from 3 leaf up to 1 st node of the crop.			
WEEDS	WEED STAGE	RATE g/ha	CRITICAL COMMENTS
Control Brome grass (<i>Bromus diandrus</i>), <i>Phalaris</i> spp., Wild oats (<i>Avena</i> spp.) Suppression Annual ryegrass (<i>Lolium rigidum</i>) Barley grass (<i>Hordeum leporinum</i>) Silver grass (<i>Vulpia</i> spp.)	1-3 leaf (pre-tillering)	70	Always use BS1000 or Chemwet 1000 at 250 mL/100 L. Weed suppression: Weeds may only be suppressed where densities of > 150 plants/m ² 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 4. BROADLEAF WEED CONTROL

For application to wheat and triticale (excluding durum varieties) only from 3 leaf up to 1 st node of the crop.			
WEED	WEED STAGE AND SIZE	RATE g/ha	CRITICAL COMMENTS
Bedstraw (<i>Galium tricornutum</i>)	Cotyledon - 6 whorl Up to 10 cm	70	Always use BS 1000 or Chemwet 1000 at 250 mL/100 L.
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 + 300 mL LVE 600 MCPA or + 500 mL Bromoxynil/MCPA (200 + 200 g/L) or + 500 mL Bromoxynil/MCPA + 40 g Lontrel 750 SG	High weed density: for high densities (> 50/m ²), use tank-mixes and highest rate of partner herbicide where a range is stated. Crop stage for tankmixes: treat crop at the labelled growth stage for the partner herbicide. MCPA tankmixes: LVE 600 MCPA at 400 mL/ha must be applied from 5 leaf stage onwards in NNSW 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 5 cm	70	
Doublegee (Spiny emex) (<i>Emex australis</i>)	Cotyledon - 4 leaf Up to 10 cm	70 + 5 g Metsulfuron (600 g/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	
Lentil (<i>Lens esculentum</i>)	Cotyledon - 6 leaf Up to 8 cm	70	
Lupins - suppression (<i>Lupinus albus</i>) Medic spp.	Cotyledon - 4 leaf Up to 6 cm Cotyledon - 4 leaf Up to 8 cm	70	Always use BS 1000 or Chemwet 1000 at 250 mL/100 L. High weed density: for high densities (> 50/m ²), use tank-mixes and highest rate of partner herbicide where a range is stated.
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	Crop stage for tankmixes: treat crop at the labelled growth stage for the partner herbicide. MCPA tankmixes: LVE 600 MCPA at 400 mL/ha must be applied from 5 leaf stage onwards in NNSW and Qld.

TABLE 4. BROADLEAF WEED CONTROL *continued*

For application to wheat and triticale (excluding durum varieties) only from 3 leaf up to 1 st node of the crop.			
WEED	WEED STAGE AND SIZE	RATE g/ha	CRITICAL COMMENTS
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 (600 g/kg)	Mallow suppression: ensure excellent crop competition for best suppression.
Sowthistle (<i>Sonchus oleraceus</i>)	Cotyledon - 4 leaf Up to 10 cm	70 + 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		
Wireweed (<i>Polygonum aviculare</i>)	Cotyledon - 4 leaf Up to 8 cm	70	

Note: 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.

WITHHOLDING PERIODS

When using Crusader GoDRI™ in a tank mix with another product, observe whichever Harvest or Grazing/Stockfood Withholding Period that is the longer.

Harvest: **NOT REQUIRED WHEN USED AS DIRECTED.**

Grazing/Stockfood: **DO NOT graze or cut treated crops for stock feed for 4 weeks after application.**

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.



GENERAL INSTRUCTIONS

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 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	9 months	25 mm rain or more
Nth NSW and QLD (Summer dominant rainfall areas) Vertosol soils	70	6 months	50 mm or more rain or irrigation

For all situations, sufficient rainfall to enable soil wetting for at least one week is essential to enable residue breakdown before planting following crops other than wheat.

*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 (1) 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.



RESISTANT WEEDS WARNING

GROUP B HERBICIDE

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.

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 Mode of Action, together with non-chemical methods of control. CropLife Australia resistance management strategies are available from local agricultural chemical suppliers or at www.croplifeaustralia.org.au. Use these strategies to limit the build-up of resistant weeds on your farm.

APPLICATION

Apply in 80 – 100 L/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.

Tank mixing

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 if 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 15 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 tank mix 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® Selective Herbicide, Tigrex® Selective Herbicide, Precept® Selective Herbicide.

Adjuvants: Always use either BS1000, Chemwet 1000 at 250 mL/100 L spray volume or Uptake Spray Oil at 500 mL/100 L spray volume for best performance of Crusader GoDRI Herbicide.

PRECAUTION

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.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

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.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Crusader GoDRI is highly toxic to aquatic life. **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.

STORAGE AND DISPOSAL

Store in the tightly closed original container in a securely locked place, out of direct sunlight.

DO NOT store near food, feedstuffs, fertilisers or seed.

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 and tree roots, in compliance with relevant Local, State or Territory government regulations. **DO NOT** burn empty containers or product.

SMALL SPILL MANAGEMENT

Sweep up material and contain in a refuse vessel for disposal in the same manner as for containers (see STORAGE AND DISPOSAL section).

SAFETY DIRECTIONS

- May irritate the eyes.
- Avoid contact with the eyes.
- If product in eyes, wash out immediately with water.
- Avoid inhaling dust.
- When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist, and elbow-length chemical resistant gloves.
- Wash hands after use.
- After each day's use wash gloves and contaminated clothing.



FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone *Australia* 131126.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet for **CRUSADER™ GoDRI™ HERBICIDE** which is available from Dow AgroSciences on request. Call Customer Service Toll Free on 1-800 700 096 or visit www.dowagrosciences.com.au

™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow
Jaguar, Precept and Tigrex are registered trademark of Bayer Crop Science
Ally is registered trademark of Dupont

APVMA Approval No.: 82791/106777

**EMERGENCY RESPONSE
(ALL HOURS)
RING FROM ANYWHERE
IN AUSTRALIA
1-800 033 882
(LOCAL CALL FEE ONLY)**

**IN A TRANSPORT
EMERGENCY ONLY
DIAL 000
FOR POLICE OR
FIRE BRIGADE**



This product is GHS compliant. No additional GHS hazard and precautionary statements are required under the WorkSafe Australia exemptions for AgVet products.



Dow AgroSciences