

Product Name: CONQUEST HOWITZER SELECTIVE HERBICIDE
APVMA Approval No: 81337/142596



Label Name:	CONQUEST HOWITZER SELECTIVE HERBICIDE
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Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	ACTIVE CONSTITUENTS: 250 g/L BROMOXYNIL PRESENT AS THE N-OCTANOYL ESTER 250 g/L MCPA PRESENT AS THE ETHYL HEXYL ESTER 25 g/L DIFLUFENICAN SOLVENTS: 175 g/L N-METHYL-2-PYRROLIDONE 58.1 g/L LIQUID HYDROCARBON
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Mode of Action:	GROUP 6 4 12 HERBICIDE
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Statement of Claims:	For the control of certain broadleaved weeds including wild radish with developing Group 4 and/or Group 12 herbicide resistance in winter cereals as indicated in the Directions for Use table.
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Net Contents:	20 L - 1000 L
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Restraints:	This section contains file attachment.
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Directions for Use:	This section contains file attachment.
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Other Limitations:	
Withholding Periods:	CROP HARVEST: NOT REQUIRED WHEN USED AS DIRECTED All crops: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 8 WEEKS AFTER APPLICATION
Trade Advice:	
General Instructions:	This section contains file attachment.
Resistance Warning:	Conquest Howitzer Selective Herbicide is a member of the nitriles, aryloxypropylamine and phenoxy groups of herbicides and acts by inhibiting photosynthesis at photosystem II, carotenoid biosynthesis and disruption of plant cell growth. For weed resistance management Howitzer is a Group 6, Group 12 and a Group 4 herbicide. Some naturally occurring weed biotypes resistant to this product and other Group 6 and/or Group 12 and/or Group 4 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 6 and/or Group 12 and/or Group 4 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Conquest Crop Protection Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds.
Precautions:	PRECAUTION Human flaggers must be protected by engineering controls such as vehicles with enclosed cabs. RE-ENTRY PERIOD Nil
Protections:	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 susceptible plants/crops, cropping lands and pastures. Canola, cotton, tobacco, grapevines, lupins, fruit trees, ornamentals, tomatoes and other vegetables are especially susceptible to spray drift and vapour movement. PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT Toxic to algae. Dangerous to fish. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers. DO NOT apply under meteorological conditions or from spray equipment that will cause spray drift onto non-target native vegetation or adjacent areas, and in particular avoid any natural wetland or standing water body. DO NOT allow run-off within two days of application - avoid application to waterlogged soil, over-irrigation or use when heavy rains are forecast.

Storage and Disposal:	<p>Non-refillable containers: 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 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.</p> <p>Refillable containers: Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves. Return to point of supply for refill or storage.</p>
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Safety Directions:	<p>SAFETY DIRECTIONS Product is harmful if swallowed. May irritate the eyes, nose and throat. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes, nose and throat. When opening the container and preparing product for use and using the prepared spray wear disposable dust/mist face mask covering mouth and nose. Wash hands after use.</p>
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First Aid Instructions:	<p>FIRST AID If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766. If swallowed, do NOT induce vomiting. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.</p>
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First Aid Warnings:	
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RESTRAINTS

DO NOT apply if crop or weeds are stressed due to dry or excessively moist conditions.

DO NOT apply to crops under stress due to disease or insect damage.

DO NOT apply to frost-affected crops or if frosts are imminent.

DO NOT apply when heavy rain is expected within 4 hours.

DO NOT apply with crop oils.

DO NOT apply using aircraft.

DO NOT apply through a mister.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at www.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.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a **COARSE** spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory downwind buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

Buffer zones for boom sprayers

Application rate	Mandatory downwind buffer zones (metres)	
	Vegetation areas	Natural aquatic areas
	15	80

DIRECTIONS FOR USE

CROP	WEEDS CONTROLLED	STAGE OF WEED GROWTH	RATE/HA	CRITICAL COMMENTS	
CEREALS Wheat, barley, triticale, cereal rye	Wild radish	Up to the 4 leaf stage and not more than 120 mm in diameter	500 mL	<p>CROP STAGE <i>Cereals</i> Up to 750 mL (3 leaf to fully tillered stage - Z13 to 30) Over 750 mL (5 leaf to fully tillered stage - Z15 to 30) Optimum results are achieved when sprayed at 3-5 leaf crop stage (generally 4-8 weeks post sowing).</p> <p>WA only: DO NOT apply to Barley or Kulin Wheat before the 5 leaf stage (Z15).</p> <p>Warning: The maximum litre per hectare rate is safe to use on crops at the 3 leaf stage. HOWITZER may cause transient crop yellowing of cereals. (Refer to "Crop Safety" section of General Instructions)</p> <p>WEED STAGE Apply when weeds are actively growing. In most situations the rate specified for each weed size will give satisfactory control. Under certain conditions such as: * high crop and weed density * late season germinations * abnormal weed growth (including early flowering), Higher rates of product (up to the maximum rate of application specified for that weed) may be required. HOWITZER will not effectively control: * regrowth of suppressed weeds; * transplanted weeds; * regrowth from rhizomes or roots; * weeds growing under stress from previous herbicide applications</p> <p>WARNING: Howitzer may cause transient crop yellowing or cereals (Refer to "Crop Safety" section of General Instruction)</p> <p>APPLICATION Activity of this product will be reduced if weeds are stressed. Optimum results will be obtained if good soil moisture exists at and after application. Where crop or weed density is high, water volume should be increased.</p> <p>WILD RADISH HOWITZER will provide residual control of Wild Radish for up to 4 weeks after application. Effective residual activity of this product may be reduced where: * rates lower than 1.0 L/ha are used; * dry conditions prevail; * poor coverage of the soil surface is achieved; * crop is planted in non-wetting sand; * soils contain a high content of organic matter.</p>	
		Up to the 6 leaf stage and not more than 150 mm in diameter	750 mL		
		Up to the 8 leaf stage and not more than 180 mm in diameter	1.0 L		
	Charlock, hedge mustard, Indian hedge mustard, shepherd's purse, turnip weed, wild turnip	Up to the 2 leaf stage and not more than 60 mm in diameter	500 mL		
		Up to the 4 leaf stage and not more than 120 mm in diameter	750 mL		
		Up to the 6 leaf stage and not more than 150 mm in diameter	1.0 L		
	Capeweed	Up to the 2 leaf stage and not more than 60 mm in diameter	500 mL		
		Up to the 4 leaf stage and not more than 120 mm in diameter	1.0 L		
	Crassula	Up to the 2 leaf stage	500 mL		
		Up to the 4 leaf stage	750 mL		
	Corn gromwell, saffron thistle, toad rush	Up to the 2 leaf stage	500 mL		
	Dense-flower fumitory	Up to the 2 leaf stage	750 mL		
	Deadnettle	Up to the 4 leaf stage	1.0 L		
	Sorrel	Up to the 2 leaf stage	1.0 L		
	Canola (rape)	Up to the 4 leaf stage	500 mL		
	Purple goosefoot	Up to the 6 leaf stage	500 mL		
	Turnip weed, wild turnip	Cotyledon to 2 leaf stage	350 mL		
	SUPPRESSION OF THE FOLLOWING WEEDS				
	Saffron thistle	Up to the 6 leaf stage	1.0 L		
	Chickweed, fireweed, hexham scent (King Island mellilot), iceplant, mouse-eared chickweed, night-scented stock, Paterson's curse, peppergrass, skeleton weed, long storksbill, volunteer lupins	Up to the 4 leaf stage			
Wireweed (hogweed)					
Common sowthistle (milk thistle), cowvine, dock, doublegee (spiny emex), fat hen, horehound, hyssop loosestrife, marshmallow, rough poppy, scarlet pimpernel, stemless thistle, tree hogweed, variegated thistle, vetch (tares)	Up to the 2 leaf stage	1.0 L			

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

GENERAL INSTRUCTIONS

Conquest HOWITZER Selective Herbicide is a post-emergence, foliar-absorbed product with short soil residual activity. Under favorable conditions, this pre-emergence activity will provide some control of subsequently germinating weed seedlings.

MIXING

Half fill the spray tank with clean water. Commence agitation and add the required amount of product to the tank. Maintain agitation whilst filling the tank and throughout the spraying operation. Once mixed with water spray out solution immediately. ***Spray mixture containing Conquest Howitzer should not be left to stand overnight.*** Prolonged periods of exposure to cold temperatures could result in settling out of the product in the mixture.

APPLICATION

Ground application: Apply with flat fan nozzles in a spray volume of 75-150 L of water per hectare using standard boom spraying equipment. Application as a COARSE spray quality using air induction nozzles such as AirMix or similar is suitable provided water volumes of 75-150 L of water per hectare are used. In advanced or dense weed infestations and/or dense crop canopies, increase the water volume to ensure adequate coverage.

COMPATIBILITY

DO NOT add spraying oil to HOWITZER or HOWITZER tank mixes. As water quality can influence compatibility, it is recommended that mixtures should be bottle-tested in the water intended for spraying, prior to mixing commercial quantities.

CROP SAFETY

Following application, some transient bleaching (yellow spotting and/or mottling) of cereal foliage may occur especially with higher rates on young crops. This bleaching is confined to leaves present at application. The development of the crop and subsequent new growth is unaffected in crops growing free of stress. Symptoms will be more pronounced and persistent in crops that are growing under stress (see Restraints). Avoid swath overlapping.

Subsequent Crops

To reduce the effect on subsequent susceptible crops (e.g Canola), ensure thorough cultivation of soil prior to the sowing of these crops.

Warning

The rubber component present in some spraying units may be affected by exposure to the solvents in Conquest Howitzer and some other agricultural products. To reduce this risk, it is recommended that the spray unit be thoroughly washed with a boom cleaner and fresh water after use. Contact the spray manufacturer to determine the suitability to the rubber components for use with agricultural products.

SPRAYER CLEANUP

Following use, the sprayer should be cleaned before spraying sensitive broadleaf crops. Empty the tank completely and drain the whole system. Quarter fill the tank with clean water directing stream onto inside of tank. Circulate through the pump, the hoses and nozzles then drain. Repeat if necessary. Finally remove and clean all filters (tank, in-line and nozzle) separately. This will provide an effective cleaning technique for HOWITZER. A boom cleaner may be used as part of the procedure. If HOWITZER has been tank mixed with another product which requires more thorough decontamination follow the method recommended on the partner product label.