

POISON

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

Quadrant[®]

Herbicide

ACTIVE CONSTITUENTS: **10 g/L PICOLINAFEN**
20 g/L DIFLUFENICAN
240 g/L BROMOXYNIL
present as the OCTANOATE
250 g/L MCPA
present as the ETHYL HEXYL ESTER

SOLVENT: 150 g/L N-METHYL-2-PYRROLIDONE

GROUP

12|6|4

HERBICIDE

Crops/Situations: Barley, Cereal Rye, Oats,
Triticale, Wheat

Controls/Suppresses: A range of broadleaf weeds
as per the Directions for Use

Formulation type

Emulsifiable
Concentrate

EC



ADAMA

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CONTENTS: 1 L - 1000 L

DIRECTIONS FOR USE

Restraints:

DO NOT apply to crops or weeds under stress due to disease or insect damage, nutrient deficiencies or other herbicide use.
DO NOT apply to frost-affected crops or weeds or if frosts are imminent.
DO NOT apply to crops or weeds that are stressed due to dry or excessively moist conditions, or excessively dry or moist conditions are expected post-application.
DO NOT apply if rain is expected within 4 hours or if heavy rains or storms are forecast within 2 days.
DO NOT apply with crop oils.
DO NOT apply to crops undersown with lucerne, clover or medics.
DO NOT apply by mister machines.
DO NOT irrigate to the point of runoff for at least 2 days after application.

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 buffer zones' section) are observed.

DO NOT apply by aircraft unless the following requirements are met:

- spray droplets not smaller than a **COARSE** spray droplet size category
- for release heights 25% of wingspan or 25% of rotor diameter or lower above the target canopy, minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section) are observed.

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MANDATORY NO-SPRAY ZONES

DO NOT apply if there are aquatic and wetland areas including aquacultural ponds, surface streams and rivers within **250 m** (for aerial application) or **20 m** (for ground application) downwind from the application area.

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 buffer zones** shown in Table 1 below.

Table 1: Buffer zones for protection of the terrestrial environment

Wind speed range at time of application	Mandatory downwind buffer zone	
	Fixed-wing	Helicopter
FOR AERIAL APPLICATION		
from 3 to 8 kilometres per hour	350 m	200 m
from 8 to 14 kilometres per hour	500 m	300 m
from 14 to 20 kilometres per hour	550 m	400 m
FOR GROUND APPLICATION		
from 3 to 20 kilometres per hour	15 m	

CROP	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE/ha	CRITICAL COMMENTS
Barley, Cereal Rye, Oats, Triticale, Wheat	Wild Radish	Up to the 4 leaf stage and not more than 120 mm in diameter	600 mL	CROP STAGE All Cereals Apply from 3 leaf to late tillering stage - Z13 to 28. Optimum results are achieved when sprayed at 3-5 leaf crop stage (generally 4-8 weeks post sowing) and before the crop canopy begins to close. Warning: QUADRANT® may cause transient crop effects/yellowing of cereals, with oats being potentially most sensitive. Higher rates may reduce the biomass of oat hay crops. Application during temperatures above 20°C may significantly increase crop effects. Before applying QUADRANT®, refer to the “Crop Tolerance” section of the General Instructions. WEED STAGE AND RATE SELECTION Apply when weeds are actively growing. In most situations the rate specified for each weed size will give satisfactory control. QUADRANT® will not effectively control: <ul style="list-style-type: none">• regrowth of suppressed weeds;• transplanted weeds;• regrowth from rhizomes or roots;• weeds growing under stress from previous herbicide applications. Where a rate range is provided, higher rates are recommended for use on larger weeds within the specified size range, particularly when they dominate the weed stand. Higher rates can also provide faster burndown of emerged weeds, fewer surviving weeds, longer residual control (on susceptible weed species) and reduce weed seeds returning to the soil bank. Higher rates of product (up to the maximum rate of application specified for that weed) may also be required under certain conditions such as: <ul style="list-style-type: none">• high crop and weed density;• late season germinations;• abnormal weed growth (including early flowering). More crop effects can occur when applying higher rates and later in the application window. Lower rates control or suppress smaller weeds within the size range specified, but may result in less crop effect than higher rates. Refer to “CROP STAGE” statement above and “Crop Tolerance” section of the General Instructions prior to applying QUADRANT®. 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, select the appropriate nozzles, spray quality and water volume to ensure good coverage of target weeds. WILD RADISH QUADRANT® can provide residual control of Wild Radish for up to 4 weeks after application. Effective residual activity of this product may be reduced where: <ul style="list-style-type: none">• rates lower than 800 mL/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. Optimum results will be obtained if good soil moisture exists at and after application. CLIMBING BUCKWHEAT, WIREWEED, FUMITORY AND DOUBLEGEE (SPINY EMEX) Suppression only may occur at the lower rate where high weed densities are present at application and/or conditions are not favourable for control. Multiple herbicide applications may be required for control of Climbing Buckwheat. After applying QUADRANT®, an additional spray of a Climbing Buckwheat herbicide such as VORTEX® may be required to control survivors. For Wireweed, Fumitory and Doublegee control, apply the lower rate on smaller plants with up to 2 leaves. Use higher rates where larger plants with up to 4 leaves dominate the population. Where wireweed occurs in red soils of low fertility it has been found to be less susceptible.
		Up to the 6 leaf stage and not more than 150 mm in diameter	800 mL	
		Up to the 8 leaf stage and not more than 180 mm in diameter	1.0 to 1.2 L	
	Matricaria / Globe Chamomile	Up to the 6 leaf stage	1.0 L	
	Capeweed, Charlock, Crassula (Stonecrop), Hedge Mustard, Indian Hedge Mustard, Prickly Lettuce, Shepherd’s Purse, Turnip Weed, Wild Turnip	Up to the 2 leaf stage and not more than 60 mm in diameter	600 mL	
		Up to the 4 leaf stage and not more than 120 mm in diameter	800 mL	
		Up to the 6 leaf stage and not more than 150 mm in diameter	1.0 to 1.2 L	
	Amsinckia, Chamomile, Corn Gromwell, Fat Hen, Field Madder, Horned Poppy, Lesser Swinecress, Mexican Poppy, Mintweed, Saffron Thistle, Slender Thistle	Plants up to the 6 leaf stage but not more than 50 mm in diameter	800 mL to 1.0 L	
	Mountain Sorrel, Three-horned bedstraw	Plants up to the 4 leaf stage		
	Cleavers	2-4 stem stage and 1-3 whorls of leaves per stem		
	Toad Rush	Up to the 2 leaf stage		
	Sorrel			
	Deadnettle			
	London Rocket	Up to the 5 leaf stage and not more than 120 mm in diameter		
	Ward’s Weed			
	Canola (rape)	Up to the 4 leaf stage	600 mL	
Purple Goosefoot	Up to the 6 leaf stage			
Fumitory, Doublegee (Spiny Emex), Hexham Scent (King Island Melilot), Paterson’s Curse, Rough Poppy, Tree Hogweed, Wireweed	Plants up to the 4 leaf stage	800 mL to 1.2 L		
Climbing Buckwheat	Up to 2 leaves	1.0 to 1.2 L		
Cowvine, Common Sowthistle (Milk Thistle), Variegated Thistle	Up to 4 leaves	1.2 L		
Common Peppergrass, Purple Calandrinia	Up to 6 leaves but not more than 50 mm in diameter			

CROP	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE/ha	CRITICAL COMMENTS
Barley, Cereal Rye, Oats, Triticale, Wheat	SUPPRESSION OF THE FOLLOWING WEEDS			Please see previous page
	Dock, Horehound, Hyssop Loosestrife, Marshmallow, Scarlet Pimpernel, Stemless Thistle, Vetch (tares)	Up to the 2 leaf Stage	1.0 L	
	Chickweed, Fireweed, Iceplant, Mouse-eared Chickweed, Nightscented Stock, Peppergrass, Skeleton Weed, Long Storksbill, Volunteer Lupins	Up to the 4 leaf stage		

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 8 WEEKS AFTER APPLICATION.

WEED LIST

Common name	Scientific name	Common name	Scientific name
Amsinckia	<i>Amsinckia</i> spp	Matricaria (Globe chamomile)	<i>Oncosiphon piluliferum</i>
Canola (rape)	<i>Brassica napus</i>	Mexican Poppy	<i>Argemone mexicana</i>
Capeweed	<i>Arctotheca calendula</i>	Mouse-eared Chickweed	<i>Cerastium glomeratum</i>
Chamomile	<i>Matricaria matricarioides</i>	Night-scented Stock	<i>Matthiola longipetala</i>
Charlock	<i>Sinapis arvensis</i>	Mintweed	<i>Salvia reflexa</i>
Chickweed	<i>Stellaria media</i>	Mountain Sorrel	<i>Oxalis acetosella</i>
Cleavers	<i>Galium aparine</i>	Paterson's Curse	<i>Echium plantagineum</i>
Climbing Buckwheat	<i>Fallopia convulvulus</i>	Peppergrass	<i>Lepidium</i> spp.
Common Peppergrass	<i>Lepidium hyssopifolium</i>	Prickly Lettuce	<i>Lactuca serriola</i>
Common Sowthistle (milk thistle)	<i>Sonchus oleraceus</i>	Purple Calandrinia	<i>Calandrinia menziesii</i>
Corn Gromwell	<i>Buglossoides arvensis</i>	Purple Goosefoot	<i>Scleroblitum atriplicinum</i>
Cowvine	<i>Ipomoea lonchophylla</i>	Rough Poppy	<i>Papaver hybridum</i>
Crassula (Stonecrop)	<i>Crassula</i> spp.	Saffron Thistle	<i>Carthamus lanatus</i>
Deadnettle	<i>Lamium amplexicaule</i>	Scarlet Pimpernel	<i>Anagallis arvensis</i>
Dock	<i>Rumex</i> spp.	Shepherd's Purse	<i>Capsella bursa-pastoris</i>
Doublegee (Spiny Emex)	<i>Emex australis</i>	Skeleton Weed	<i>Chondrilla juncea</i>
Fat Hen	<i>Chenopodium album</i>	Slender Thistle	<i>Cordus tenuiflorus, C. pycnocephalus</i>
Field Madder	<i>Sherardia arvensis</i>	Sorrel	<i>Rumex</i> spp.
Fireweed	<i>Senecio</i> spp.	Stemless Thistle	<i>Onopordum acaulon</i>
Fumitory	<i>Fumaria</i> spp.	Three-horned Bedstraw	<i>Galium tricornutum</i>
Hedge Mustard	<i>Sisymbrium officinale</i>	Toad Rush	<i>Juncus bufonius</i>
Hexham Scent (King Island Melilot)	<i>Melilotus indicus</i>	Tree Hogweed	<i>Polygonum patulum</i>
Horehound	<i>Marrubium vulgare</i>	Turnip Weed	<i>Rapistrum rugosum</i>
Horned Poppy	<i>Glaucium flavum</i>	Variegated Thistle	<i>Silybum marianum</i>
Hyssop Loosestrife	<i>Lythrum hyssopifolia</i>	Vetch (Tares)	<i>Vicia sativa</i>
Iceplant	<i>Mesembryanthemum</i> spp.	Volunteer Lupins	<i>Lupinus</i> spp.
Indian Hedge Mustard	<i>Sisymbrium orientale</i>	Ward's Weed	<i>Carrichtera annua</i>
Lesser Swinecress	<i>Coronopus didymus</i>	Wild Radish	<i>Raphanus raphanistrum</i>
London Rocket	<i>Sisymbrium irio</i>	Wild Turnip	<i>Brassica tournefortii</i>
Long Storksbill	<i>Erodium botrys</i>	Wireweed (Hogweed)	<i>Polygonum aviculare</i>
Marshmallow	<i>Malva parviflora</i>		

GENERAL INSTRUCTIONS

RESISTANT WEEDS WARNING

QUADRANT® Herbicide is a member of the pyridinecarboxamide, nitrile and phenoxy groups of herbicides and acts by inhibiting carotenoid biosynthesis at the phytoene desaturase step (PDS inhibitors), inhibiting photosynthesis at photosystem II (PS II inhibitors) and disrupting plant cell growth. For weed resistance management QUADRANT® is a Group 12, Group 6 and Group 4 herbicide. Some naturally occurring weed biotypes resistant to QUADRANT® and other Group 12, 6 and 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 QUADRANT® or other Group 12, Group 6 or Group 4 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Adama Australia accepts no liability for any losses that may result from the failure of QUADRANT® to control resistant weeds.

GROUP	12/6/4	HERBICIDE
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CROP TOLERANCE

All cereals

After application some transient crop yellowing may occur. This usually appears as yellow or white banding on leaves. Provided the crop is not under stress from pre-emergent herbicide, root disease, insect damage, frost, dry or excessively moist conditions, the development of the crop and subsequent growth will be unaffected. Crop damage can be increased on highly alkaline sands or loams especially where free lime is present.

Oats

QUADRANT® can cause significant crop effects in oats. In addition to yellowing, crop scorch and a reduction in vigour can occur in oats, particularly if the application is delayed to later stages of crop growth. If applying QUADRANT® to oat crops grown for hay, it is recommended that small weeds are targeted with the lower rates (where available) earlier in the application window to minimise the impact of crop effects.

SUBSEQUENT CROPS

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

MIXING

To ensure even mixing, half fill the spray tank with clean water and add the required amount of product. Agitate thoroughly then add the remainder of the water. Agitate again before spraying commences. Reseal part-used product container immediately after use. Spray mixtures containing QUADRANT® 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.

WARNING

The rubber components present in some spraying units may be affected by exposure to the solvents in QUADRANT® 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 unit manufacturer to determine the suitability of the rubber components for use with agricultural products.

COMPATIBILITY

DO NOT use crop oils with QUADRANT® or with QUADRANT® tank mixtures with other products in cereals. As formulations of other manufacturer's products are beyond the control of Adama Australia, all mixtures should be tested prior to mixing commercial quantities. For advice on product compatibility with QUADRANT®, please contact Adama Australia.

APPLICATION

Boom Sprayer: A minimum of 50 L of water per hectare should be used, however, for optimum results water rates of 70-100 L/ha are recommended. Increase the water volume if weed infestation is heavy or crop cover is dense. Complete coverage of weeds is essential.

Aircraft (NSW, Vic, SA only): Apply in a minimum of 30 L water per hectare. Effective weed control will only be achieved where good coverage of the leaf surface is achieved.

RE-ENTRY

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.

PRECAUTION

Human flaggers must be protected by engineering controls such as vehicles with enclosed cabs.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Avoid spray drift and vapour movement onto susceptible crops such as canola, cotton, tobacco, grapevines, lupins, fruit trees, ornamentals, tomatoes and other vegetables.

PROTECTION OF LIVESTOCK

Grazing Precaution: Sprayed weeds may become more palatable to stock and a higher intake of some weeds may result in stock poisoning and death from causes such as nitrate poisoning.

Care should be taken especially where Capeweed, Paterson's Curse and variegated thistles predominate in the pasture. Avoid grazing with young or breeding stock. DO NOT graze horses or pigs on Paterson's Curse. If in doubt, contact your nearest Department of Agriculture.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

STORAGE AND DISPOSAL

1-100L, 200L: This product must be stored in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. 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 a 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.

110 L: This product must be stored in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Store the original sealed container in a cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the container with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the container have been used, please return container to the point of purchase. The container remains the property of Adama Australia

1000L: This product must be stored in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Store in the closed, original container in a cool, well-ventilated area.

DO NOT store for prolonged periods in direct sunlight. Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs Adama Australia should be advised immediately. This minibulk container is reusable and remains the property of Adama Australia.

DO NOT rinse empty container. Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage. No other liquid, solid or pesticide product should be put into it. When empty return to Adama Australia for cleaning, relabelling and refilling.

SAFETY DIRECTIONS

Harmful if inhaled or swallowed. Will irritate eyes. May irritate skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container, preparing the spray and using the prepared spray, except if applying by aerial spraying equipment, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, elbow-length chemical resistant gloves, face shield or goggles and a disposable mist face mask covering mouth and nose. In addition, when opening the container and preparing spray for aerial spraying equipment, wear cotton overalls, over normal clothing, buttoned to the neck and wrist, elbow-length chemical resistant gloves, face shield or goggles and a half facepiece respirator with organic vapour/gas cartridge or canister. Wash hands after use. After each day's use, wash gloves, respirator and if rubber wash with detergent and warm water, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, do NOT induce vomiting. If in eyes, wash out immediately with water.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for QUADRANT® is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of QUADRANT® Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia, regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

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