

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

Triathlon® Herbicide

ACTIVE CONSTITUENTS: 250 g/L MCPA
 present as the ETHYL HEXYL ESTER
 150 g/L BROMOXYNIL
 present as the OCTANOATE
 25 g/L DIFLUFENICAN
 SOLVENT: 150 g/L N-METHYL-2-PYRROLIDONE

GROUP FCI HERBICIDE



ADAMA

For the control of certain broadleaf weeds in wheat, barley, triticale and cereal rye as specified in the Direction for Use.

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CONTENTS: 5L, 20L, 110L, 200L, 1000L

DIRECTIONS FOR USE

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.

CROP	WEEDS CONTROLLED	STAGE OF WEED GROWTH	STATE	RATE/ha	CRITICAL COMMENTS
Wheat, Barley, Triticale, Cereal Rye	Wild Radish	Up to the 2 leaf stage and not more than 60 mm in diameter	WA Only	250 mL	CROP STAGE All Cereals Apply from 3 leaf to fully tillered stage - Z13 to 30. Optimum results are achieved when sprayed at 3-5 leaf crop stage (generally 4-8 weeks post sowing). WA only: DO NOT apply to Barley or Kulin Wheat before the 5 leaf stage (Z15). Warning: TRIATHLON may cause transient crop yellowing of cereals (Refer to "Crop Tolerance" section of General Instructions).
		Up to the 4 leaf stage and not more than 120 mm in diameter	All States	500 mL	
		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	

Continued overleaf

CROP	WEEDS CONTROLLED	STAGE OF WEED GROWTH	STATE	RATE/ha	CRITICAL COMMENTS
Wheat, Barley, Triticale, Cereal Rye <i>cont.</i>	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	All States	500 mL	<p><i>Continued from previous page</i></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:</p> <ul style="list-style-type: none"> • 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. <p>TRIATHLON will not effectively control:</p> <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. <p>GRAZING Efficacy on larger weeds will be improved by grazing with normal levels of stock after the 14 day withholding period. Refer to 'Protection of Livestock' for grazing precautions.</p> <p>WILD RADISH TRIATHLON will provide residual control of Wild Radish for up to 4 weeks after application. Effective residual activity of this product may be reduced where:</p> <ul style="list-style-type: none"> • 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>Optimum results will be obtained if good soil moisture exists at and after application.</p>
		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	
	London Rocket	Up to the 5 leaf stage and not more than 120 mm in diameter	Qld only	750 mL	
	Ward's Weed		SA only		
	Capeweed	Up to the 2 leaf stage and not more than 60 mm in diameter	All States	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	
	Prickly Lettuce	Up to the 2 leaf stage		500 mL	
		Up to the 4 leaf stage		750 mL	
	Dense-Flower Fumitory	Up to the 6 leaf stage		1.0 L	
				750 mL	
	Amsinckia, Capeweed, Chamomile, Charlock, Corn Gromwell, Fat Hen, Field Madder, Hexham Scent, Horned Poppy, Indian Hedge Mustard, Lesser Swinecress, Mexican Poppy, Mintweed, Patersons Curse, Rough Poppy, Saffron Thistle, Shepherd's Purse, Slender Thistle, Tree Hogweed, Turnip Weed, Wild Radish, Wild Turnip	Plants up to the 6 leaf stage but not more than 50 mm in diameter	WA only	1.0 L	

CROP	WEEDS CONTROLLED	STAGE OF WEED GROWTH	STATE	RATE/ha	CRITICAL COMMENTS		
Wheat, Barley, Triticale, Cereal Rye cont.	Fumitory, Doublegee	Plants up to the 4 leaf stage but not more than 6 cm in diameter	WA only	1.0 L	<i>Continued from previous page</i> 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. # Where Wireweed occurs in red soils of low fertility it has been found to be less susceptible.		
	Variegated thistle, Wireweed #	Plants up to the 4 leaf stage but not more than 3.5 cm in diameter					
	Mountain Sorrel, Three-Horned Bedstraw	Plants up to the 6 leaf stage					
	Cleavers	2-4 stem stage and 1-3 whorls of leaves per stem					
	Corn Gromwell, Saffron Thistle, Toad Rush	Up to the 2 leaf stage	All States	1.0 L			
	Deadnettle		NSW, Vic, SA only				
	Sorrel		Vic only				
	Canola (Rape)	Up to the 4 leaf stage	All States	500 mL			
	Purple Goosefoot	Up to the 6 leaf stage	Qld only				
	Turnip Weed, Wild Turnip	Cotyledon to 2 leaf stage	NSW only (West of Newell Hwy.) SA only (Eyre peninsula north of the line between Venus Bay And Cowell)	350 mL			
	SUPPRESSION OF THE FOLLOWING WEEDS						
	Saffron Thistle	Up to the 6 leaf stage	Qld, NSW, ACT, Vic, Tas, SA, NT only	1.0 L			
	Chickweed, Fireweed, Hexham Scent (King Island Melilot), Iceplant, Mouse-Eared Chickweed, Nightscented Stock, Paterson's Curse, Peppergrass, Skeleton Weed, Long Storksbill, Volunteer Lupins	Up to the 4 leaf stage					
Wireweed (Hogweed)		750 mL					
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	Qld, NSW, ACT, Vic, Tas, SA, NT only			1.0 L		

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 WITHIN 14 DAYS AFTER APPLICATION.****WEED LIST**

Common name	Scientific name	Common name	Scientific name
Amsinckia	<i>Amsinckia</i> spp.	Marshmallow	<i>Malva parviflora</i>
Canola (Rape)	<i>Brassica napus</i>	Mouse-Eared Chickweed	<i>Cerastium glomeratum</i>
Capeweed	<i>Arctotheca calendula</i>	Night-Scented Stock	<i>Matthiola longipetala</i>
Chamomile	<i>Matricaria matricarioides</i>	Mexican Poppy	<i>Argemone mexicana</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>
Common Sowthistle (Milk Thistle)	<i>Sonchus oleraceus</i>	Peppergrass	<i>Lepidium</i> spp.
Corn Gromwell	<i>Buglossoides arvensis</i>	Prickly Lettuce	<i>Lactuca serriola</i>
Cowvine	<i>Ipomoea lonchophylla</i>	Purple Goosefoot	<i>Scleroblitum atriplicinum</i>
Crassula	<i>Crassula</i> spp.	Rough Poppy	<i>Papaver hybridum</i>
Deadnettle	<i>Lamium amplexicaule</i>	Saffron Thistle	<i>Carthamus lanatus</i>
Dense-flower Fumitory	<i>Fumaria densiflora</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</i> , <i>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>	Variogated Thistle	<i>Silybum marianum</i>
Hyssop Loosestrife	<i>Lythrum hyssopifolia</i>	Vetch (Tares)	<i>Vicia sativa</i>
Iceland	<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 Swinncress	<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>

GENERAL INSTRUCTIONS**RESISTANT WEEDS WARNING**

TRIATHLON® Herbicide is a member of the nicotinamide, 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 TRIATHLON is a Group F, Group C and Group I herbicide. Some naturally occurring weed biotypes resistant to TRIATHLON and other Group F, C and I 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 TRIATHLON or other Group F, Group C or Group I herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Adama Australia Pty. Ltd. accepts no liability for any losses that may result from the failure of TRIATHLON to control resistant weeds.

CROP TOLERANCE

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.

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Some pre-emergent herbicides, such as atrazine, can cause stress to certain crops resulting in an increase in crop damage when using this product. Subterranean clover is particularly sensitive.

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 TRIATHLON 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 TRIATHLON 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 TRIATHLON or TRIATHLON tank mixtures with other products in cereals. As formulations of other manufacturer's products are beyond the control of Adama, all mixtures should be tested prior to mixing commercial quantities.

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 leaf surface is achieved.

DO NOT use crop oils with TRIATHLON or TRIATHLON tank mixtures with other products in cereals. As formulations of other manufacturer's products are beyond the control of Adama, all mixtures should be tested prior to mixing commercial quantities.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause drift onto nearby susceptible plants/crops, cropping lands or pastures. Avoid spray drift and vapour movement onto susceptible crops such as cotton, tobacco, tomatoes, vines, lupins, fruit trees and ornamentals.

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

Dangerous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL

5L, 10L, 20L, 200L: 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.

Envirodrum Micro Matic Valve (110 L): Store the original sealed Envirodrum 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 Envirodrum 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 Envirodrum have been used, please return the Envirodrum to the point of purchase. The Envirodrum remains the property of Adama Australia Pty. Ltd.

1000L: 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 Pty. Ltd. should be advised immediately. This minibulk container is reusable and remains the property of Adama Australia Pty. Ltd.

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 Pty. Ltd. for cleaning, relabelling and refilling.

SAFETY DIRECTIONS

Product is harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with the eyes and skin. Avoid inhaling vapour. When opening the container and preparing spray by open mixing equipment wear cotton overalls, over normal clothing, buttoned to the neck and wrist and a washable hat, elbow-length chemical resistant gloves and face shield or goggles. When opening the container and preparing spray by closed mixing equipment wear cotton overalls, buttoned to the neck and wrist and a washable hat and elbow-length chemical resistant gloves and face shield or goggles. When applying by boom spray or aerial spraying equipment wear cotton overalls, buttoned to the neck and wrist and a washable hat (or equivalent clothing) and elbow-length chemical resistant gloves. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, 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. Give a glass of water. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for TRIATHLON is available from Adama on request. Call Customer Service on (02) 9431 7800.

CONDITIONS OF SALE: The use of TRIATHLON® Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia Pty. Ltd. 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 Pty. Ltd. 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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Batch No.:

Date of Manufacture:

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