

## CAUTION

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

# CLETHODIM XTRA

360 HERBICIDE

### ACTIVE CONSTITUENTS:

360 g/L CLETHODIM

### SOLVENT:

534 g/L LIQUID HYDROCARBONS

GROUP **A** HERBICIDE

For the control of certain grass weeds in beetroot, cabbage, canola, celery, cotton, forestry, lettuce, non-bearing fruit trees, onions, ornamentals, peanuts, pulses (including azuki beans, broad beans, chickpeas, faba beans, field peas, lentils, lupins and mung beans), potatoes, soybeans and pasture legume (lucerne, clover and medic), seed crops (and pastures) as per the Directions for Use table.

IMPORTANT: READ THIS LEAFLET BEFORE USE

**RELYON**

APVMA Approval No:  
90284/128416

## DIRECTIONS FOR USE

### RESTRAINTS:

DO NOT apply without the addition of an adjuvant.

DO NOT apply to plants that are stressed by moisture or temperature extremes.

DO NOT apply if rain is expected within one hour of application.

DO NOT apply RELYON CLETHODIM XTRA 360 HERBICIDE more than once to any one crop.

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	RATE mL/ha
<b>Canola</b> <b>Pulse crops</b> (including azuki beans, broad beans, chickpeas, faba beans, field peas, lentils <sup>1</sup> , lupins <sup>2</sup> )  <b>Pasture legume</b> (lucerne, clover and medic) <b>Seed Crops and Pastures<sup>1</sup></b> (including pastures containing chicory and plantain).	<b>Canola:</b> DO NOT APPLY after flower buds become visible (green buds)  <b>Azuki beans:</b> DO NOT APPLY after first flower buds are visible.  <b>Chickpeas:</b> DO NOT APPLY beyond full flowering  <b>Faba beans, broad beans:</b> DO NOT APPLY beyond full flowering  <b>Field peas:</b> DO NOT APPLY beyond full flowering  <b>Lentils:</b> Apply up to the 7 node/early branching stage of crop growth  <b>Lupins:</b> DO NOT APPLY after 80% of flowers have opened	Annual ryegrass ( <i>Lolium rigidum</i> ), Annual phalaris ( <i>Phalaris minor</i> )	100 to 330
		Barley grass ( <i>Hordeum leporinum</i> ), Brome grass ( <i>Bromus diandrus</i> ), Wild Oats ( <i>Avena</i> spp.)	115 to 330
	Volunteer wheat ( <i>Triticum aestivum</i> ), Volunteer oats ( <i>Avena sativa</i> )	130* to 330 *(115 to 330 in WA only)	
	Volunteer barley ( <i>Hordeum vulgare</i> )	330	
	Silver grass ( <i>Vulpia bromoides</i> ) – suppression only	165 to 330	
	Paradoxa grass ( <i>Phalaris paradoxa</i> )	165 to 250 250 to 330	
<b>Cotton</b> (Qld, NSW and NT only), <b>Peanuts,</b> <b>Mung beans,</b> <b>Soybeans</b>  <b>Pasture legume</b> (lucerne, clover and medic) <b>Seed Crops and Pastures<sup>1</sup></b> (including pastures containing chicory and plantain).	<b>Cotton:</b> DO NOT APPLY after full flowering (mid bloom)  <b>Peanuts:</b> DO NOT APPLY after the pod fill stage of crop development  <b>Mung beans:</b> DO NOT APPLY after first flower buds are visible  <b>Soybeans:</b> DO NOT APPLY after first flower buds are visible	Barnyard grass ( <i>Echinochloa</i> spp.), Blown grass ( <i>Agrostis aveacea</i> ), Crownsfoot grass ( <i>Eleusine indica</i> ), Feathertop Rhodes grass ( <i>Chloris virgata</i> ), Liverseed grass ( <i>Urochloa panicoides</i> ), Red sprangletop grass ( <i>Leptochloa filliformis</i> ), Seedling Johnson grass <sup>2</sup> ( <i>Sorghum halepense</i> ), Summer grass ( <i>Digitaria</i> spp.), Volunteer sorghum ( <i>Sorghum</i> spp.)	165 to 250 250 to 330

STAGE OF WEED GROWTH	STATE	CRITICAL COMMENTS
2-leaf to fully tillered	Qld, NSW, ACT, Vic, Tas, SA, WA only	Always apply with D-C-Trate* at 2L/100L or Hasten* at 1L/100L or Kwickin* at 1L/100L or Uptake* at 500mL/100L spray volume. The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress. See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for mixture recommendations with insecticides, fungicides and other herbicides.  *Application up to 7- node/early branching crop growth stage only.  # NOT QLD  <sup>1</sup> See use of RELYON CLETHODIM XTRA 360 HERBICIDE in pastures under General Instructions.
2- to 5-leaf stage	Qld, NSW, ACT, only	
2-leaf to fully tillered		
2- to 5-leaf stage	Qld, NSW, ACT, Vic, WA, NT only	Always apply with D-C-Trate at 2L/100L or Hasten at 1L/100L or Kwickin at 1L/100L or Uptake at 500mL/100L spray volume. The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress. See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for mixture recommendations with insecticides, fungicides and other herbicides.  <sup>1</sup> See use of RELYON CLETHODIM XTRA 360 HERBICIDE in pastures under General Instructions.  <sup>2</sup> Only Johnson grass seedlings germinating from seed will be controlled. Seedlings that appear later as shoots from underground stems will not be controlled, and more than one application may be required to control emerging shoots.
5-leaf to fully tillered		

CROP	WEEDS CONTROLLED	RATE mL/ha	STAGE OF WEED GROWTH
<b>Beetroot, Cabbage, Celery, Lettuce, Potatoes, Onions</b>	Barnyard grass ( <i>Echinochloa</i> spp.), Blown grass ( <i>Agrostis aveacea</i> ), Crowfoot grass ( <i>Eleusine indica</i> ), Feathertop Rhodes grass ( <i>Chloris virgata</i> ), Liverseed grass ( <i>Urochloa panicoides</i> ), Paradoxa grass ( <i>Phalaris paradoxa</i> ), Red sprangletop grass ( <i>Leptochloa filliformis</i> ), Seedling Johnson grass ( <i>Sorghum halepense</i> ) <sup>1</sup> , Summer grass ( <i>Digitaria</i> spp.), Volunteer sorghum ( <i>Sorghum</i> spp.)	165 to 250	2- to 5-leaf stage
		250 to 330	5-leaf to fully tillered
	Annual ryegrass ( <i>Lolium rigidum</i> ), Annual phalaris ( <i>Phalaris minor</i> )	100 to 330	2-leaf to fully tillered
	Barley grass ( <i>Hordeum leporinum</i> ), Brome grass ( <i>Bromus diandrus</i> ), Wild oats ( <i>Avena</i> spp.)	115 to 330	
	Volunteer wheat ( <i>Triticum aestivum</i> ), Volunteer oats ( <i>Avena sativa</i> )	130* to 330* (115 to 330 in WA only)	
	Volunteer barley ( <i>Hordeum vulgare</i> )	330	
	Silver grass ( <i>Vulpia bromoides</i> ) – suppression only (not Qld, WA)	165 to 330	
	Winter grass ( <i>Poa annua</i> )	330	
<b>Forestry, Non-bearing Fruit Trees and Ornamentals</b>	Annual ryegrass ( <i>Lolium rigidum</i> ), Annual phalaris ( <i>Phalaris minor</i> ), Barley grass ( <i>Hordeum leporinum</i> ), Barnyard grass ( <i>Echinochloa</i> spp.), Blown grass ( <i>Agrostis aveacea</i> ), Brome grass ( <i>Bromus diandrus</i> ), Crowfoot grass ( <i>Eleusine indica</i> ), Feathertop Rhodes grass ( <i>Chloris virgata</i> ), Liverseed grass ( <i>Urochloa panicoides</i> ), Paradoxa grass ( <i>Phalaris paradoxa</i> ), Red sprangletop grass ( <i>Leptochloa filliformis</i> ), Seedling Johnson grass ( <i>Sorghum halepense</i> ) <sup>1</sup> , Silver grass ( <i>Vulpia bromoides</i> ), – suppression only (not QLD, WA), Summer grass ( <i>Digitaria</i> spp.), Volunteer sorghum ( <i>Sorghum</i> spp.), Volunteer wheat ( <i>Triticum aestivum</i> ), Volunteer oats ( <i>Avena sativa</i> ), Volunteer barley ( <i>Hordeum vulgare</i> ), Winter grass ( <i>Poa annua</i> )	330	2-leaf to fully tillered

STATE	CRITICAL COMMENTS
All States	Always apply with D-C-Trate at 2L/100L or Hasten at 1L/100L or Kwickin at 1L/100L or Uptake at 500mL/100L spray volume. The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress. Use a spray volume of 150L/ha when spraying dense grass populations.  <sup>1</sup> Only Johnson grass seedlings germinating from seed will be controlled. Seedlings that appear later as shoots from underground stems will not be controlled, and more than one application may be required to control emerging shoots.
All States	Always apply with D-C-Trate at 2L/100L or Hasten at 1L/100L or Kwickin at 1L/100L or Uptake at 500mL/100L spray volume.  The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress. Use a spray volume of 150 L/ha when spraying dense grass populations.
All States	Apply after plants have recovered from transplant shock and are showing signs of active growth. Always apply with D-C-Trate at 2L/100L or Hasten at 1L/100L or Kwickin at 1L/100L or Uptake at 500mL/100L spray volume. Use a spray volume of 150 L/ha when spraying dense grass populations. Do NOT use on Gymnosperms (pines, conifers, etc) unless a prior test has been conducted to check safety on the relevant species. See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for particular species.  <sup>1</sup> Only Johnson grass seedlings germinating from seed will be controlled. Seedlings that appear later as shoots from underground stems will not be controlled, and more than one application may be required to control emerging shoots.

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

### WITHHOLDING PERIODS:

#### HARVEST:

PASTURE LEGUME (LUCERNE, CLOVER AND MEDIC) SEED CROPS AND PASTURES: NOT REQUIRED WHEN USED AS DIRECTED.

CANOLA, COTTON, PEANUTS, PULSES (AZUKI BEANS, BROAD BEANS, CHICKPEAS, FABA BEANS, FIELD PEAS, LENTILS, LUPINS, MUNG BEANS) AND SOYBEANS: NOT REQUIRED WHEN USED AS DIRECTED.

FORESTRY: NOT REQUIRED WHEN USED AS DIRECTED.

BEETROOT, CABBAGE: DO NOT APPLY LATER THAN 7 DAYS BEFORE HARVEST.

ONIONS: DO NOT APPLY LATER THAN 14 DAYS BEFORE HARVEST.

LETTUCE, POTATOES: DO NOT APPLY LATER THAN 4 WEEKS BEFORE HARVEST.

CELERY: DO NOT APPLY LATER THAN 9 WEEKS BEFORE HARVEST

#### GRAZING:

PASTURE LEGUME (LUCERNE, CLOVER AND MEDIC) SEED CROPS AND PASTURES: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 14 DAYS AFTER APPLICATION.

CANOLA, PEANUTS, PULSES (AZUKI BEANS, BROAD BEANS, CHICKPEAS, FABA BEANS, FIELD PEAS, LENTILS, LUPINS, MUNG BEANS) AND SOYBEANS: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 21 DAYS AFTER APPLICATION.

COTTON: DO NOT GRAZE OR CUT COTTON FORAGE OR STUBBLE FOR STOCK FEED.

### GENERAL INSTRUCTIONS

#### RESISTANT WEEDS WARNING:

<b>GROUP</b>	<b>A</b>	<b>HERBICIDE</b>
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RELYON CLETHODIM XTRA 360 HERBICIDE is a member of the cyclohexanedione group of herbicides. RELYON CLETHODIM XTRA 360 HERBICIDE has the inhibition of acetyl coA carboxylase mode of action. For weed resistance management, RELYON CLETHODIM XTRA 360 HERBICIDE is a Group A Herbicide. Some naturally-occurring weed biotypes resistant to RELYON CLETHODIM XTRA 360 HERBICIDE and other Group A 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 RELYON CLETHODIM XTRA 360 HERBICIDE or other Group A Herbicides. Since occurrence of resistant individuals is difficult to detect prior to use, Nutrien Ag Solutions Limited accepts no liability for any losses that may result from the failure of RELYON CLETHODIM XTRA 360 HERBICIDE to control resistant weeds.

### CLEANING SPRAY EQUIPMENT

#### Before using RELYON CLETHODIM XTRA 360 HERBICIDE

Ensure that the recommended clean-out procedure for the previous product (particularly sulfonyleurea herbicides) sprayed with the equipment was done properly.

#### After using RELYON CLETHODIM XTRA 360 HERBICIDE

Empty the tank and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the

tank and clean all filters in the tank, pump line and nozzles. Use of a household detergent will aid in cleaning the equipment. Add detergent to the part-filled spray tank and thoroughly circulate through pumps, hoses and nozzles. Drain the system and thoroughly rinse twice with clean water.

**Rinse water should be discharged onto a designated disposal area, or if this is unavailable, onto unused land away from desirable plants and water sources.**

### MIXING:

To ensure even mixing, half-fill the spray tank with clean water and add the required amount of product. Add spray additive and agitate thoroughly, then add the remainder of the water. Agitate again before spraying commences.

### APPLICATION:

#### Ground Application:

RELYON CLETHODIM XTRA 360 HERBICIDE should be applied with calibrated spray equipment producing MEDIUM spray droplets according to the ASAE S572 definition for the standard nozzles. Apply in a minimum of 50 litres of water per hectare. Use 150 L/ha when spraying dense populations.

#### Aerial Application:

RELYON CLETHODIM XTRA 360 HERBICIDE can be applied through aircraft fitted with boom or Micronair equipment. A spray volume of 20 to 30 L/ha is recommended and equipment should be adjusted to produce MEDIUM spray droplets according to the ASAE S572 definition for the standard nozzles. Best results will be obtained when aerial applications are made in a light crosswind. Applications should not be made during temperature inversions or in conditions of very low relative humidity. Care should be taken to avoid drift damage to adjoining grass crops.

### USE OF RELYON CLETHODIM XTRA 360 HERBICIDE ON PASTURE LEGUME (LUCERNE, CLOVER AND MEDIC) SEED CROPS AND PASTURES AND PASTURE HERBS:

RELYON CLETHODIM XTRA 360 HERBICIDE has been demonstrated to be safe when applied to the following cultivars during early establishment.

#### Pasture Legumes:

##### Clover (*Trifolium spp.*)

Annual: Subterranean clover (*Dalkeith, Dalsa, Goulburn, Koala, Nungarrin, Riverina, Seaton Park and York A*), Arrowleaf clover (*Zulu II*), Balansa clover (*Enduromax, Frontier, Paradana*), Berseem clover (*Elite II*), Gland clover (*Prima*), Persian clover (*Prolific, Leeton*), Rose clover (*Hylon*) Perennial: Strawberry clover (*Palestine*), White clover (*NuSiral*)

##### Lucerne and Medics (*Medicago spp.*)

Lucerne (*Aurora, Field, Genesis, Hunterfield, Multileaf, Salado, Sardi SEVEN, Sceptre and Venus*), Barrel medic (*Sephi, Jester Paraggio, Caliph*), Burr medic (*Scimitar, Santiago*), Snail medic (*Silver*)

##### Serradella (*Ornithopus spp.*)

French or Pink serradella (*Cadiz*), Yellow serradella (*Charano, Santorini*)

#### Pasture Herbs:

##### Chicory (*Puna II*) and Plantain (*Tonic*)

Apply RELYON CLETHODIM XTRA 360 HERBICIDE when plants have reached 2–4 trifoliate leaf stage, or after 40 days from sowing. Some pasture varieties may exhibit an initial reduction in crop vigour or biomass, however, these symptoms are transient and crops recover fully with no effect on yield.

**COMPATIBILITY:**

RELYON CLETHODIM XTRA 360 HERBICIDE is compatible with the following grass herbicides: Quizalofop-P-Ethyl, Fluazifop-P , Haloxyfop, Sethoxydim and Propaquizafop. (Refer to the Propaquizafop labels for detail on adjuvant recommendations for that product).

NOTE: In all situations where RELYON CLETHODIM XTRA 360 HERBICIDE is mixed with another grass herbicide, RELYON CLETHODIM XTRA 360 HERBICIDE should be used at the full label rate specified for the target weed species. RELYON CLETHODIM XTRA 360 HERBICIDE may also be applied in tank mixtures with one of the following products: Esfenvalerate, Alpha-Cypermethrin 100 and Omethoate.

RELYON CLETHODIM XTRA 360 HERBICIDE should not be applied in a tank mix with Brodal\*, Basagran\* or Blazer\*. Apply as separate applications. For information on compatibility of products not listed, please refer to Nutrien Ag Solutions Limited.

**CAUTION:**

**Ornamentals and Trees** – While RELYON CLETHODIM XTRA 360 HERBICIDE is generally selective to broadleaved plants (i.e. it is active against grasses), tests should always be made on a small number of plants not previously tested. DO NOT use on Gymnosperms (pines, conifers, etc) unless a prior test has been conducted to check safety on the relevant species.

**PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS:**

DO NOT apply RELYON CLETHODIM XTRA 360 HERBICIDE if wind is likely to cause drift onto susceptible crops/ plants, cropping lands or pastures. RELYON CLETHODIM XTRA 360 HERBICIDE should not be applied through misting equipment or any other method likely to cause excessive drift. Care should be taken to avoid damage to adjoining native grasses or grass crops.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT:**

DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. Protect from frost. 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 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.

This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple-rinse container for disposal. Dispose of rinsate by adding it to the spray tank. Do not dispose of undiluted chemical 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 program site. The cap should not be replaced, but may be taken separately.

**Refillable Containers:** Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

**SAFETY DIRECTIONS**

Harmful if swallowed. Will irritate the eyes and skin. When preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length chemical resistant gloves and face shield or goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out

immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. 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 13 11 26, New Zealand 0800 764 766. If swallowed, do NOT induce vomiting. If in eyes wash out immediately with water.

**SAFETY DATA SHEET**

For further information refer to the Safety Data Sheet (SDS), which can be obtained from the supplier.

**CONDITIONS OF SALE**

The use of this product is beyond the control of Nutrien Ag Solutions Limited. Any provisions or rights under the Australian Consumer Law which cannot be excluded by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies expressed or implied under common law, statute or otherwise, in relation to the sale, supply, storage, use or application of this product are excluded. Nutrien Ag Solutions Limited does not accept any liability (including consequential loss and/or negligence) for any loss or damage connected with the sale, supply, storage, use or application of this product except for liability which cannot be excluded by statute.

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# RELYON®

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