Clethodim 240EC

ACTIVE CONSTITUENT: 240 g/L CLETHODIM
SOLVENT: 663 g/L LIQUID HYDROCARBONS

GROUP A HERBICIDE

For the control of certain grass weeds in beetroot, cabbage, canola, celery, chickpeas, cotton, faba beans, field peas, forestry, lentils, lettuce, lupins, mung beans, non-bearing fruit trees, onions, ornamentals, peanuts, potatoes and soy beans as per the Directions for Use Table

APVMA APROVAL NO: 62564/1107

READ THIS LEAFLET THOROUGHLY BEFORE USING THIS PRODUCT

Distributed by
Crop Smart Pty.Ltd
ABN: 28 093 927 961
28 Diagonal Rd, Pooraka, SA, 5095
Tel: 1300 783 481 Fax: 1300 783 491
PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
DO NOT contaminate streams, rivers or waterways with the product 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 or preferably pressure 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 bury the empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

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 PVC gloves, face shield or goggles. 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 131126).
If swallowed, do NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET
Additional information is listed in the Material Safety Data Sheet, which is available from the supplier.

CONDITION OF SALE
Crop Smart Australia Limited (“Crop Smart”) shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever, or howsoever arising through negligence or otherwise in connection with the sale, supply, use or application of this product. The supply of this product is on the express conditions that the purchaser does not rely on Crop Smart’s skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Crop Smart has any authority to alter these conditions.

APVMA Approval No: 62564/1L/1107, 62564/5L/1107, 62564/10L/1107, 62564/20L/1107, 62564/60L/1107, 62564/110L/1107
**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 Smart Clethodim 240 Herbicide more than once to any one crop.

<table>
<thead>
<tr>
<th>CROP</th>
<th>CROP GROWTH STAGE</th>
<th>WEEDS CONTROLLED</th>
<th>RATE (mL/ha)</th>
<th>STAGE OF WEED GROWTH</th>
<th>STATE</th>
<th>CRITICAL COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canola, Chickpeas, Faba beans, Field peas, Lentils(^1), Lupins(^2)</td>
<td>Canola: DO NOT APPLY after flower buds become visible (green buds)</td>
<td>Annual ryegrass (<em>Lolium rigidum</em>), Annual phalaris (<em>Phalaris minor</em>)</td>
<td>150 to 250</td>
<td>2-leaf to fully tillered</td>
<td>Qld, NSW, ACT, Vic, Tas, SA, WA only</td>
<td>Always apply with D-C-Trate(^<em>) at 2 L/100 L or Hasten(^</em>) at 1 L/100 L or Kwickin(^<em>) at 1 L/100 L or Uptake(^</em>) at 500 mL/100 L 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.(^{(1)}) Application up to 7-node/early branching stage of crop growth only(^{(2)}) Not Queensland</td>
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<tr>
<td>Chickpeas: DO NOT APPLY beyond full flowering</td>
<td>Barley grass (<em>Hordeum leporinum</em>), Brome grass (<em>Bromus diandrus</em>), Wild Oats (<em>Avena spp.</em>)</td>
<td>175 to 250</td>
<td><em>175 to 250 in WA only</em></td>
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<td>Faba beans: DO NOT APPLY beyond full flowering</td>
<td>Volunteer wheat (<em>Triticum aestivum</em>), Volunteer oats (<em>Avena sativa</em>)</td>
<td>200(^*) to 250</td>
<td>2-leaf to 5 leaf stage</td>
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<td>Field Peas: DO NOT APPLY beyond full flowering</td>
<td>Volunteer barley (<em>Hordeum vulgare</em>)</td>
<td>250</td>
<td>2 to 5 leaf stage</td>
<td>NSW, ACT, Vic, Tas only</td>
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</tr>
<tr>
<td>Lentils: Apply up to the 7 node/early branching stage of crop growth.</td>
<td>Silver grass (<em>Vulpia bromoides</em>) – suppression only</td>
<td>250 to 500</td>
<td>2 to 5 leaf tillered</td>
<td>Qld, NSW, ACT only</td>
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<tr>
<td>Lupins: DO NOT APPLY after 80% of flowers have opened</td>
<td>Paradox grass (<em>Phalaris paradoxa</em>)</td>
<td>250 to 375</td>
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<tr>
<td>CROP</td>
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<td>WEEDS CONTROLLED</td>
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<tr>
<td>Cotton (Qld, NSW and NT only) Peanuts, Mung beans, Soybeans</td>
<td>Cotton: DO NOT APPLY after full flowering (mid bloom)</td>
<td>Barnyard grass (<em>Echinochloa</em> spp.) Blown grass (<em>Agrostis aveacea</em>), Crowsfoot grass (<em>Eleusine indica</em>) Feathertop Rhodes grass (<em>Chloris virgata</em>), Liverseed grass (<em>Urochloa panicoides</em>), Red sprangletop grass (<em>Leptochloa filiformis</em>), Seedling Johnson grass (<em>Sorghum halepense</em>), Summer grass (<em>Digitaria spp</em>), Volunteer sorghum (<em>Sorghum spp</em>).</td>
<td>250 to 375</td>
<td>2 to 5 leaf stage</td>
<td>Qld, NSW, ACT, Vic, WA, NT only</td>
<td>Always apply with D-C-Trate at 2 L/100 L or Hasten at 1 L/100 L or Kwickin at 1 L/100 L or Uptake at 500 mL/100 L 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.</td>
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<tr>
<td>Cotton: DO NOT APPLY after the pod fill stage of crop development</td>
<td>Peanuts: DO NOT APPLY after the pod fill stage of crop development</td>
<td></td>
<td>375</td>
<td>5 leaf to fully tillered</td>
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<td>Mung beans: DO NOT APPLY after the first flower buds are visible.</td>
<td>Soybeans: DO NOT APPLY after the first flower buds are visible.</td>
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<tr>
<td>Beetroot, Cabbage, Celery, Lettuce, Potatoes, Onions</td>
<td>Barnyard grass (<em>Echinochloa</em> spp.), Blown grass (<em>Agrostis aveacea</em>), Crowsfoot grass (<em>Eleusine indica</em>), Feathertop Rhodes grass (<em>Chloris virgata</em>), Liverseed grass (<em>Urochloa panicoides</em>), Paradoxa grass (<em>Phalaris paradoxa</em>), Red sprangletop grass (<em>Leptochloa filiformis</em>), Seedling Johnson grass (<em>Sorghum halepense</em>), Summer grass (<em>Digitaria</em> spp), Volunteer sorghum (<em>Sorghum</em> spp.)</td>
<td>250 to 375</td>
<td>2 to 5 leaf stage</td>
<td>All States</td>
<td>Always apply with D-C-Trate at 2 L/100 L or Hasten at 1 L/100 L or Kwickin at 1 L/100 L or Uptake at 500 mL/100 L 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.</td>
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<td></td>
<td></td>
<td>375</td>
<td>5 leaf to fully tillered</td>
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</table>
| Beetroot, Cabbage, Celery, Lettuce, Potatoes Onions (cont) | Annual ryegrass *(Lolium rigidum)*<br>Annual phalaris *(Phalaris minor)*<br>Barley grass *(Hordeum leporinum)*<br>Brome grass *(Bromus diandrus)*<br>Wild Oats *(Avena spp.)*<br>Volunteer wheat *(Triticum aestivum)*<br>Volunteer oats *(Avena sativa)*<br>Volunteer barley *(Hordeum vulgare)*<br>Silver grass *(Vulpia bromoides)* – suppression only *(not Qld, WA)*<br>Winter grass *(Poa annua)* | 150 to 250<br>175 to 250<br>200* to 250 *(175 to 250 in WA only)*<br>250<br>250 to 500<br>500 | 2-leaf to fully tillered | All States | Always apply with D-C-Trate at 2 L/100 L or Hasten at 1 L/100 L or Kwicin at 1 L/100 L or Uptake at 500 mL/100 L 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.
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<td>Forestry, non-bearing fruit trees and ornamentals</td>
<td>Annual ryegrass (<em>Lolium rigidum</em>)&lt;br&gt;Annual phalaris (<em>Phalaris minor</em>)&lt;br&gt;Barley grass (<em>Hordeum leporinum</em>), Barnyard grass (<em>Echinochloa spp.</em>), Blown grass (<em>Agrostis aveacea</em>), Brome grass (<em>Bromus diandrus</em>), Crowsfoot grass (<em>Eleusine indica</em>)&lt;br&gt;Feathertop Rhodes grass (<em>Chloris virgata</em>), Liverseed grass (<em>Urochloa panicoides</em>), Paradoxa grass (<em>Phalaris paradoxa</em>), Red sprangletop grass (<em>Leptochloa filiformis</em>), Seedling Johnson grass (<em>Sorghum halepense</em>), Silver grass (<em>Vulpia bromoides</em>) – suppression only (not Qld, WA), Summer grass (<em>Digitaria spp.</em>), Volunteer sorghum (<em>Sorghum spp.</em>), Volunteer wheat (<em>Triticum aestivum</em>), Volunteer oats (<em>Avena sativa</em>), Volunteer barley (<em>Hordeum vulgare</em>)&lt;br&gt;Winter grass (<em>Poa annua</em>)</td>
<td>500</td>
<td>2 leaf to fully tillered</td>
<td>All States</td>
<td>Apply after plants have recovered from transplant shock and are showing signs of active growth. Always apply with D-C-Trate at 2 L/100 L or Hasten at 1 L/100 L or Kwickin at 1 L/100 L or Uptake at 500 mL/100 L 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.</td>
</tr>
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</table>

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

HARVEST:

CANOLA, CHICKPEAS, COTTON, FABA BEANS, FIELD PEAS, LENTILS, LUPINS, MUNG BEANS, PEANUTS, 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:

CANOLA, CHICKPEAS, FABA BEANS, FIELD PEAS, LENTILS, LUPINS, MUNG BEANS, PEANUTS, 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

GROUP A HERBICIDE

Smart Clethodim 240EC Herbicide is a member of the cyclohexanedione group of herbicides. Smart Clethodim 240EC Herbicide has the inhibitor of acetyl coA carboxylase mode of action. For weed resistance management Smart Clethodim 240EC Herbicide is a Group A Herbicide. Some naturally occurring weed biotypes resistant to Smart Clethodim 240EC 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 Smart Clethodim 240EC Herbicide or other Group A Herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Crop Smart Pty Ltd accepts no liability for any losses that may result from the failure of Smart Clethodim 240EC Herbicide to control resistant weeds.

CLEANING SPRAY EQUIPMENT

Before using SMART Clethodim 240EC

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

After using SMART Clethodim 240EC

Empty the tank and drain the whole system. Thoroughly wash inside of 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

Smart Clethodim 240EC Herbicide should be applied with calibrated spray equipment producing a median droplet range of 200 to 300 microns VMD. Apply in a minimum of 50 litres of water per hectare. Use 150 L/ha when spraying dense populations.

Aerial Application

Smart Clethodim 240EC 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 deliver droplets in the range of 200 to 250 microns VMD. 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.

COMPATABILITY

Smart Clethodim 240EC Herbicide is compatible with the following grass herbicides: Targa*, Fusilade*, Verdict*, Sertin* and Correct* (Refer to the Bayer Correct label for detail on adjuvant recommendations for that product).

NOTE: in all situations where Smart Clethodim 240EC Herbicide is mixed with another grass herbicide, Smart Clethodim 240EC Herbicide should be used at the full label rate specified for target weed species. Smart Clethodim 240EC Herbicide may also be applied in tank mixtures with one of the following products: Sumi-Alpha* 50 EC, Sumi-Alpha* Dual, Apha-cypermethrin 100 Insecticide and Le-Mat*. Smart Clethodim 240EC 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 Crop Smart Pty Ltd.

CAUTION
Ornamentals and Trees – While Smart Clethodim 240EC Herbicide is generally selective to broadleaved plants (i.e. it is active against grasses), tests should always be made on a smaller 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 Smart Clethodim 240EC Herbicide if wind is likely to cause drift onto susceptible crops/plants, cropping lands or pastures. Smart Clethodim 240EC 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 waterways with the product 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 or preferably pressure 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 bury the empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

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 PVC gloves, face shield or goggles. 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 131126). If swallowed, do NOT induce vomiting. Give a glass of water.

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* Registered Trademark