

Product Name: Sabakem Paraquat Diquat 250

APVMA Approval No: 94419/RV2026



Australian Pesticides &  
Veterinary Medicines Authority

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| Signal Headings:        | DANGEROUS POISON<br>KEEP OUT OF REACH OF CHILDREN<br>CAN KILL IF SWALLOWED<br>DO NOT PUT IN DRINK BOTTLES<br>KEEP LOCKED UP<br>READ SAFETY DIRECTIONS BEFORE OPENING OR USING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |           |
| Product Name:           | Sabakem Paraquat Diquat 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |           |
| Constituent Statements: | ACTIVE CONSTITUENTS:<br>135 g/L PARAQUAT present as PARAQUAT DICHLORIDE<br>115 g/L DIQUAT present as DIQUAT DIBROMIDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |           |
| Mode of Action:         | GROUP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 22 | HERBICIDE |
| Statement of Claims:    | For the Control of a Wide Range of Grasses and Broadleaf Weeds.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |           |
| Net Contents:           | 10 L – 20 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |           |
| Restrains:              | <p><b>DO NOT</b> remove contents except for immediate use.</p> <p><b>DO NOT</b> continue to use if eye irritation or bleeding from the nose occurs.</p> <p><b>DO NOT</b> apply by aircraft or misting machines.</p> <p><b>DO NOT</b> apply by spraying equipment carried on the back of the user.</p> <p><b>DO NOT</b> use open mixing/loading equipment. Closed mixing and loading <b>MUST</b> be used.</p> <p><b>DO NOT</b> apply if heavy rains or storms are forecast within 3 days.</p> <p><b>DO NOT</b> spray plants, which are waterlogged, under stress of any kind or covered with soil or dust.</p> <p><b>DO NOT</b> spray plants covered with heavy dew, but rain following spraying will not affect results.</p> <p><b>DO NOT</b> irrigate to the point of field runoff for at least 3 days after application.</p> <p><b>DO NOT</b> sow or cultivate for 1 hour after spraying.</p> <p><b>For small scale applications up to 6 ha per day:</b></p> <p><b>DO NOT</b> apply using open cab equipment unless using a PF10 respirator.</p> <p><b>For applications greater than 6 ha per day:</b></p> <p><b>DO NOT</b> apply using open cab equipment. Enclosed cab application <b>MUST</b> be used.</p> |    |           |

## SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at [apvma.gov.au/spraydrift](http://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 advisory buffer zones in the relevant buffer zone table below provides 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 surface temperature inversion conditions present at the application site during the time of application. These 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 MEDIUM spray droplet size category
- minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

Buffer zones for boom sprayers

| Application rate | Boom height above the target canopy | Mandatory downwind buffer zones (metres) |                       |                  |                  |                 |
|------------------|-------------------------------------|------------------------------------------|-----------------------|------------------|------------------|-----------------|
|                  |                                     | Bystander areas                          | Natural aquatic areas | Pollinator areas | Vegetation areas | Livestock areas |
| Up to 1.0 L/ha   | 0.5 m or lower                      | 10                                       | 40                    | 0                | 0                | 0               |
|                  | 1.0 m or lower                      | 50                                       | 120                   |                  | 20               |                 |
| Up to 800 mL/ha  | 0.5 m or lower                      | 10                                       | 35                    |                  | 0                |                 |
|                  | 1.0 m or lower                      | 40                                       | 100                   |                  | 20               |                 |
| Up to 600 mL/ha  | 0.5 m or lower                      | 5                                        | 30                    |                  | 0                |                 |
|                  | 1.0 m or lower                      | 30                                       | 80                    |                  | 15               |                 |

Directions for Use: This section contains file attachment

Other Limitations: FOR USE ONLY AS AN AGRICULTURAL HERBICIDE.  
THIS PRODUCT IS TOO HAZARDOUS TO BE USED IN THE HOME GARDEN.

|                      |                                                                                                                                                                                                                                                   |
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| Withholding Periods: | <p><b>GRAZING:</b><br/>LIVESTOCK: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION.<br/>HORSES: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.</p> <p><b>HARVEST:</b><br/>NOT REQUIRED WHEN USED AS DIRECTED.</p> |
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| Trade Advice: | <p><b>LIVESTOCK DESTINED FOR EXPORT MARKETS</b><br/>The grazing withholding period only applies to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that in addition to complying with the grazing withholding period, the export slaughter interval is observed before stock are sold or slaughtered.</p> <p><b>EXPORT SLAUGHTER INTERVAL (ESI) 13 DAYS</b><br/>Livestock that has grazed on or been fed treated crops should be placed on clean feed for 13 days prior to slaughter.</p> <p><b>EXPORT OF TREATED PRODUCE</b><br/>Growers should note that maximum residue limits (MRLs) or import tolerances may not exist in all markets for chickpeas, field peas, lentils, lupins or vetch treated with Accensi Paraquat/Diquat 250 Herbicide. If you are growing chickpeas, field peas, lentils, lupins or vetch for export, please check with Sabakem Pty Ltd for the latest information on MRLs and import tolerances before using Sabakem Paraquat Diquat 250.</p> |
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General

Directions:

GENERAL INSTRUCTIONS

Sabakem Paraquat Diquat 250 quickly kills a wide range of annual grasses, broadleaf weeds and some perennial grasses when sprayed directly onto the leaves. The active ingredients are rapidly and tightly absorbed by clay and silt particles in the soil and do not leave any effective soil residues. Thus crops sown immediately after spraying are not affected by the chemicals, nor are weed seeds, which germinate after spraying.

Where insect pests are anticipated use recommended insecticide treatment.

Regular checks should be made before and after sowing.

Suitable residual herbicides can be tank mixed with Sabakem Paraquat Diquat 250 to provide extended in-crop weed control in fallows and subsequent crops. Read label recommendations of the respective residual herbicides prior to use and observe precautions against use of residual herbicides before planting susceptible crops. See compatibility statement on this label for compatibility of Sabakem Paraquat Diquat 250 with other herbicides.

Mixing

The recommended rate of Sabakem Paraquat Diquat 250 should be added to water in the spray tank and agitated to give even mixing. Agitate again if left standing.

Water Volume

It is essential to obtain good leaf coverage with spray and the following volumes are recommended:

| Winter rainfall areas   | Boom spray     | Summer rainfall areas:<br>Weed stage and density |
|-------------------------|----------------|--------------------------------------------------|
| Plant height up to 2 cm | 50 to 100 L/ha | Small plants (2 to 5 leaf) and well separated    |

Note:

(1) If the volume is increased above 100L/ha additional wetter should be added at the rate of 120mL of BS 1000 per 100L water.

(2) Water should be clean and free from clay, silt and algae. Providing it meets this requirement, saline water, water collected from roofs, bore water, dam water and water from creeks may be used.

### **Application**

#### **Boomspray**

Use only through a properly calibrated boom spray that should be fitted with flat fan jets and adjusted to a height to give at least double overlap of the spray at the top of the weeds being sprayed. It is essential that a good marking system be used. If a disc marker is used, it must be mounted so as to turn the soil back on to the area sprayed.

### **Crop Establishment Procedures:**

#### **(1) Direct Drilling**

| Step                                                  | Critical Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| 1. Burn                                               | If possible crop stubble or pasture trash should be burnt early to avoid problems at sowing. Can also promote weed seed germination.                                                                                                                                                                                                                                                                                                                                                                    |
| 2. Shallow cultivation – optional                     | Should be carried out on opening rains to a depth of no more than 2 cm. This will encourage early even germination of weeds particularly annual grasses.                                                                                                                                                                                                                                                                                                                                                |
| 3. Heavy graze paddocks continuously from germination | This prepares the paddock for spraying by keeping the pasture short and open and at the same time restricts the development of the weed roots, which will assist seedbed formation.                                                                                                                                                                                                                                                                                                                     |
| 4. Remove stock 2 to 3 days before spraying           | Allow the weeds to freshen up – important for maximum uptake of Sabakem Paraquat Diquat 250. Spraying can, however, take place immediately after stock removal provided there is sufficient leaf cover and the pasture is not dusty.                                                                                                                                                                                                                                                                    |
| 5. Spray with a boom sprayer                          | Accurate application and full spray cover are essential to give weed control. Note limitations as outlined under 'Directions for Use'.                                                                                                                                                                                                                                                                                                                                                                  |
| 6. Sow 3 to 5 days after spraying                     | A rigid tyne spring release combine is preferred to ensure adequate penetration. Points should not be worn. The combine must be level and set to work 3 to 5 cm and sow seed at recommended depth. Use standard seed and fertiliser rates. When harrowing is considered necessary use trailing harrows.<br><br>Sowing can commence one hour after spraying and should be completed within 7 days. Where heavy weed growth is present a better seedbed will result if sowing is delayed for 3 to 5 days. |

#### **(2) With Cultivation AFTER Spraying**

| Step                                            | Critical Comments                                                                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Graze paddocks continuously from germination | This prepares the paddock for spraying by keeping the pasture short and open and at the same time restricts the development of the weed roots, which will assist seedbed formation.                                     |
| 2. Remove stock 2 to 3 days before spraying     | Allows the weeds to freshen up – important for maximum uptake of Sabakem Paraquat Diquat 250. Spraying can take place immediately after stock removal provided there is sufficient leaf cover and pasture is not dusty. |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3. Spray with a boom spray                                     | Accurate application and full spray cover are essential to give weed control. Note limitations as outlined under 'Directions for Use'.                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4. Cultivate                                                   | Between 1 hour and 7 days after spraying. When dense weed growth is present implement penetration and resulting seedbed may be improved if cultivation commences 3 to 5 days after spraying. It is not necessary to cultivate deeper than sowing depth. Use scarifier or combine with heavy harrows.                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5. Sow                                                         | Sow at the recommended seed and fertiliser rates and depth.                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>(3) Cultivation BEFORE Spraying</b>                         |                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Step</b>                                                    | <b>Critical Comments</b>                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1. Graze                                                       | Graze pasture or stubble to keep growth of weeds down to a minimum following the autumn break.                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2. Cultivate 4 to 6 weeks prior to the anticipated sowing date | Cultivate after autumn rains when conditions are suitable to produce a seedbed and before heavy weed growth develops. A scarifier and heavy harrows should be used with the aim of killing existing weed growth and leaving the seedbed in a level condition. It is not necessary to cultivate deeper than the sowing depth. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3. Wait                                                        | Wait 4 to 6 weeks to allow a full germination of weeds. Graze if necessary.                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4. Remove stock 2 to 3 days before spraying                    | Allow the weeds to freshen up – important for maximum uptake of Sabakem Paraquat Diquat 250.                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5. Spray with a boom sprayer                                   | Accurate application and full spray cover are essential to give weed control. Note limitations as outlined under 'Directions for Use'.                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6. Sow                                                         | Between one hour and 7 days after spraying, sow crop in the normal manner. Sow at recommended seed and fertiliser rates and depth.<br><b>Note:</b> Where heavy weed growth is present at spraying, a better seedbed will result if sowing is delayed for 3 to 5 days.                                                        |
| <b>(4) Control of Weeds During Fallow</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                |                                                                                                                                                                                                                                                                                                                              |
| Weeds must be controlled during the fallow to conserve moisture. While cultivation can eliminate weeds it also exposes the soil to moisture loss. In addition, repeated cultivations destroy soil structure, reduce organic matter and stubble cover. This leads to the formation of hard pans, soil crusts and increases the risk of erosion. Under moist soil conditions weeds are frequently transplanted and not killed, weed growth holds the soil in clods.<br>Sabakem Paraquat Diquat 250 herbicide provides an economical and reliable alternative for fallow weed control. |                                                                |                                                                                                                                                                                                                                                                                                                              |
| <b>Seedling weeds</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                |                                                                                                                                                                                                                                                                                                                              |
| Seedling weeds should be sprayed with 1.0 L/ha of Sabakem Paraquat Diquat 250 in 50 to 100 litres of clean water (see Directions for Use table). Some difficult to control weeds may require a second application 7 to 21 days later, or control may be assisted by a following cultivation.                                                                                                                                                                                                                                                                                        |                                                                |                                                                                                                                                                                                                                                                                                                              |
| <b>Control of Transplanted Weeds</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                |                                                                                                                                                                                                                                                                                                                              |
| Weeds transplanted by unsuccessful cultivation present an extremely difficult problem. If there is a risk that cultivation will result in weeds being transplanted (particularly under moist soil conditions) it is recommended that the weeds be                                                                                                                                                                                                                                                                                                                                   |                                                                |                                                                                                                                                                                                                                                                                                                              |

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|  | <p>sprayed with Sabakem Paraquat Diquat 250 prior to cultivation (see previous section).</p> <p>Weeds partly covered by soil and clods provide poor conditions for successful chemical weed control. The best results will be achieved by allowing the weeds to make some regrowth to provide adequate chemical targets. Apply the highest rate of Sabakem Paraquat Diquat 250 preferably spraying in the late afternoon or early evening.</p> <p><b>(5) Control of Seedling Weeds Immediately Before Sowing</b></p> <p>a) Sowing with full disturbance (full combine)<br/>The cultivation action of the combine aids in weed kill. Use 0.8 to 1.0 litres of Sabakem Paraquat Diquat 250 depending upon weed species (see Directions for Use table). Sowing should commence within 7 days of spraying.</p> <p>b) Sowing with minimum disturbance (row crop, no-till planters)<br/>Use 1.0 litre per hectare in Southern Australia.</p> <p><b>Note: for on the farm advice and assistance, contact your dealer.</b></p> |
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| Resistance Warning: | <p><b>RESISTANT WEEDS WARNING GROUP 22 HERBICIDE</b></p> <p>Sabakem Paraquat Diquat 250 is a member of the bipyridyl group of herbicides. Sabakem Paraquat Diquat 250 has the inhibitor of photosynthesis at Photosystem I mode of action. For weed resistance management Sabakem Paraquat Diquat 250 is a Group 22 herbicide.</p> <p>Some naturally occurring weed biotypes resistant to Sabakem Paraquat Diquat 250 and other Group 22 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 Sabakem Paraquat Diquat 250 or other Group 22 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Sabakem Pty Ltd accepts no liability for any losses that may result from the failure of Sabakem Paraquat Diquat 250 to control resistant weeds.</p> |
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| Precautions: | <p><b>RE-ENTRY PERIOD:</b></p> <p><b>DO NOT</b> allow entry to treated areas until the spray has dried.</p> <p><b>PRECAUTIONS:</b></p> <p>This formulation should not be applied on or near water which is used for human consumption.</p> |
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| Protection Statements: | <p><b>PROTECTION OF LIVESTOCK</b></p> <p>This formulation should not be applied on or near water, which is used for livestock watering.</p> <p><b>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</b></p> <p>Very toxic to aquatic life.</p> <p><b>DO NOT</b> contaminate wetlands or watercourses with this product or used containers.</p> <p>This formulation should not be applied on or near water, which is used for commercial or recreational fishing.</p> <p>Toxic to birds and native mammals. However, the use of this product as directed is not expected to have adverse effects on birds and native mammals.</p> <p>Toxic to beneficial arthropods. Not compatible with integrated pest management (IPM) programs utilising beneficial arthropods. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.</p> |
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| Storage and Disposal: | <p><b>STORAGE AND DISPOSAL:</b></p> <p>Store in the closed, original container in a dry, cool, well-ventilated locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. DO NOT store for prolonged periods in direct sunlight.</p> <p>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.</p> |
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| Safety Directions: | <p>Very dangerous, particularly the concentrate. Do not swallow. The product, particularly the concentrate, can kill if swallowed, absorbed through the eyes, or absorbed by skin contact. The liquid can cause burns, particularly to the eyes. Will irritate the nose, throat and skin. When handling, do not touch or rub eyes, nose or mouth with hand. Avoid contact with eyes and skin, open wounds and clothing. Protect eyes while using.</p> <p>If clothing becomes contaminated with product or with wet spray remove clothing immediately. Do not inhale spray mist. Do not allow children to play with containers or any equipment that is used.</p> <p>When connecting, disconnecting and cleaning equipment wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, impervious footwear, elbow-length chemical resistant gloves and a full face-piece respirator with canister specified for paraquat/diquat OR half face-piece respirator with canister specified for paraquat/diquat and face shield or goggles.</p> <p>When applying by hand wand wear cotton overalls, over normal clothing, buttoned to the neck and wrist and a washable hat, impervious footwear, elbow-length chemical resistant gloves and a full face-piece respirator with a canister specified for paraquat/diquat.</p> <p>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, respirator (and if rubber wash with detergent and warm water), clothing and footwear.</p> |
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| First Aid Instructions: | <p>If poisoning occurs, get to a doctor or hospital quickly. If sprayed on skin, wash thoroughly. If sprayed in mouth, rinse mouth with water. 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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## DIRECTIONS FOR USE

### SOUTHERN AUSTRALIA – FULL DISTURBANCE

| Crop/Situation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Weeds controlled                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Growth Stage                          | Rate L/ha                    | State                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Critical Comments |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Common Name                                                                                                                                                                                                                                                                    | Botanical Name                                                                                                                                                                                                                                                                                                                                 |                                       |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |
| <b>Southern Australia</b><br><br><b>Direct Drilling</b><br>With full combine<br>Or<br>With cultivation before spraying<br>Or<br>With cultivation after spraying as an aid in the establishment of crops including:<br><br><b>Winter</b><br>Canola, Chickpeas, Cereals (Wheat, Barley, Oats, Rye, Triticale), Field beans, Field peas, Lentils, Linseed (Linola), Lupins, Vetch<br><br><b>Spring/Summer</b><br>Fodder Rape, Pigeon peas, Safflower, Sorghum, Soybeans, Sunflower<br><br><b>Pasture</b><br>Clover grass, Lucerne, Medic | <u>Seedling grasses</u><br>Annual Ryegrass<br>Barley grass<br>Brome grass<br>Volunteer cereals, Wild oats                                                                                                                                                                      | <i>Lolium rigidum</i><br><i>Hordeum</i> spp.<br><i>Bromus</i> spp.<br><i>Avena</i> spp.                                                                                                                                                                                                                                                        | 2 to 3 leaf<br>4 leaf to early tiller | 0.6 to 0.8<br>0.8 to 1.0     | Sthn NSW, Vic, Tas, SA, WA only<br><br>In WA apply after the autumn break within 4 weeks of weed germination. In the other States apply to young or well-grazed weeds. In a typical mixed weed situation use the rate recommended for the growth stage of the hardest to-kill weed species. Rates shown are for optimum conditions, for sowing equipment with wide points and overall soil disturbance.<br><br>* For control of Vulpia (Silver grass) add a wetter such as BS 1000 at 100mL/100L<br><br><b>Also refer to Crop Establishment Procedure (2) – cultivation after spraying</b><br><br>Cultivation can commence 30 minutes after spraying but should be completed within 7 days unless a suitable residual herbicide is added or weeds are sprayed again. When heavy weed growth is present at spraying a better seedbed will result if cultivation is delayed 3 to 5 days to obtain maximum root release.<br><br><b>Also refer to Crop Establishment Procedure (3) – cultivation before spraying</b><br><br>Spraying may be carried out before or after sowing or transplanting but 3 days before the crop emerges.<br><br><b>Tank Mix:</b><br><br>See Compatibility Section. Refer to partner product labels for suitability of use prior to sowing particular crops and relevant plant-back periods. |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Vulpia (silver grass, sand fescue)                                                                                                                                                                                                                                             | <i>Vulpia</i> spp.                                                                                                                                                                                                                                                                                                                             | 2 to 3 leaf<br>4 leaf to early tiller | 0.6 to 0.8 *<br>0.8 to 1.0 * |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>Seedling Brassica weeds</u><br>Ball mustard<br>Charlock<br>Indian hedge mustard<br>Long fruited wild turnip<br>Muskweed<br>Shepherds purse<br>Short fruited wild turnip<br>Ward’s weed<br>Wild radish                                                                       | <i>Neslia paniculata</i><br><i>Sinapsis arvensis</i><br><i>Sisymbrium orientale</i><br><i>Brassica tournefortii</i><br><i>Myagrum perfoliatum</i><br><i>Capsella bursa-pastoris</i><br><i>Rapistrum rugosum</i><br><i>Carrichtera annua</i><br><i>Raphanus raphanistrum</i>                                                                    | 1 to 5 cm diam                        | 0.8 to 1.0                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>Other seedling broadleaved weeds</u><br>Bedstraw<br>Bifora<br>Capeweed<br>Horehound<br>Ivy-leaf speedwell<br>Lincoln weed<br>Medic<br>Spiny emex (doublegee, three cornered jack)<br>Stinging nettle<br>Storksbill (wild geranium, crowfoot)<br>Sub clover<br>Vetch (tares) | <i>Gallium tricornutum</i><br><i>Bifora testiculata</i><br><i>Arctotheca calendula</i><br><i>Marrubium vulgare</i><br><i>Veronica hederifolia</i><br><i>Diplotaxis tenuifolia</i><br><i>Medicago</i> spp.<br><i>Emex australis</i><br><br><i>Urtica urens</i><br><i>Erodium</i> spp.<br><br><i>Trifolium subterraneum</i><br><i>Vicia</i> spp. | 1 to 4 leaf or 1 to 4 cm diam         | 0.8 to 1.0                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Deadnettle<br>Fumitory                                                                                                                                                                                                                                                         | <i>Lamium amplexicaule</i><br><i>Fumaria</i> spp.                                                                                                                                                                                                                                                                                              | 1 to 10 leaf or 1 to 10 cm diam       | 0.8 to 1.0                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |

|  |                                                                 |                                                                                                                                   |              |                                                                                                       |  |  |
|--|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------|--|--|
|  | Melilotus<br>Pimpernel<br>Poppy<br>Saffron thistle<br>Sheepweed | <i>Melilotus</i> spp.<br><i>Anagallis</i> spp.<br><i>Papaver</i> spp.<br><i>Carthamus lanatus</i><br><i>Buglossoides arvensis</i> |              |                                                                                                       |  |  |
|  | Wireweed                                                        | <i>Polygonum aviculare</i>                                                                                                        | 1 to 4 leaf  | 0.8 to 1.0                                                                                            |  |  |
|  | Marshmallow                                                     | <i>Malva parviflora</i>                                                                                                           | 1 to 12 leaf | 0.8 to 1.0<br>plus 75mL<br>oxyfluorfen<br>(240 g/L)                                                   |  |  |
|  | Volunteer beans Peas,<br>Lupins                                 |                                                                                                                                   | 1 to 6 leaf  | 0.8 to 1.0 plus<br>5g Rygel<br>Metsulfuron<br>or<br>0.8 to 1.0 plus<br>500 mL<br>dicamba<br>(200 g/L) |  |  |

# SOUTHERN AUSTRALIA – FALLOW / MINIMUM DISTURBANCE

| Crop/Situation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Weeds controlled                                                                                                     |                                                                                                               | Growth Stage | Rate L/ha | State                           | Critical Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Common Name                                                                                                          | Botanical Name                                                                                                |              |           |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Southern Australia</b><br><br><b>Direct Drilling</b> With minimum disturbance (disc drill, modified combine, sod seeder)<br><br>Or<br><b>Fallows</b> Cultivated or non- cultivated as an aid in establishing crops<br><br>Or<br>Establishing and maintaining a fallow. Includes the following crops:<br><br><b>Winter</b><br>Canola, Chickpeas, Cereals (Wheat, Barley, Oats, Rye, Triticale), Field beans, Field peas, Lentils, Linseed (Linola), Lupins, Vetch<br><br><b>Spring/Summer</b> Fodder Rape, Pigeon peas, Safflower, Sorghum, Soybeans, Sunflower<br><br><b>Pasture</b><br>Clover grass, Lucerne, Medic | Seedling grasses                                                                                                     |                                                                                                               | 2 to 3 leaf  | 1.0       | Sthn NSW, Vic, Tas, SA, WA only | <b>Refer to Crop Establishment Procedures (1), (4) or (5b) as appropriate to the particular situation</b><br>In WA apply after the autumn break within 4 weeks of weed germination. In the other States apply to young or well-grazed weeds. In a typical mixed weed situation use the rate recommended for the growth stage of the hardest to-kill weed species. Rates shown are for optimum conditions, for sowing equipment with wide points and overall soil disturbance.<br><br>* For control of Vulpia (silver grass) add a 1000g/L non-ionic wetter at 100 mL/100L.<br><br><b>Also refer to Crop Establishment Procedure (2) – cultivation after spraying</b><br>Cultivation can commence 30 minutes after spraying but should be completed within 7 days unless a suitable residual herbicide is added. Where heavy weed growth is present at spraying a better seedbed will result if cultivation is delayed 3 to 5 days.<br><br><b>Also refer to Crop Establishment Procedure (3) – cultivation before spraying</b><br>Spraying may be carried out before or after sowing, but 3 days before the crop emerges.<br><br><b>Tank Mix:</b><br><br>See Compatibility Section. Refer to partner product labels for suitability of use prior to sowing particular crops and relevant plant-back periods. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Annual Ryegrass<br>Barley grass<br>Brome grass<br>Volunteer cereals, Wild oats<br>Vulpia (silver grass, sand fescue) | <i>Lolium rigidum</i><br><i>Hordeum</i> spp.<br><i>Bromus</i> spp.<br><i>Avena</i> spp.<br><i>Vulpia</i> spp. | 2 to 3 leaf  | 1.0 *     |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

# NORTHERN AUSTRALIA – FULL DISTURBANCE

| Crop/Situation                                                                                                                                                                                                                                                                                                                                                                                                | Weeds controlled                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Growth Stage     | Rate L/ha  | State                     | Critical Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                                                                                                                                                                                                                                                                                                                                                                                                               | Common Name                                                                                                                                                                                                                                                                                                                                                       | Botanical Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |            |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Northern Australia</b><br><br><b>Direct Drilling</b><br>With full combine as an aid in the establishment of crops including:<br><br><b>Broadacre crops – Winter</b><br>Canola, Chickpeas, Cereals (Wheat, Barley, Oats, Rye, Triticale), Field beans<br><br><b>Broadacre crops – Summer</b><br>Peanuts, Pigeon peas, Safflower, Sorghum, Soybeans, Sunflower, Navy beans, Mungbeans, Millet, Maize, Cotton | <u>Seedling grasses</u><br>(not regrowth or rhizomes)<br>Barnyard grass<br>Buffel grass<br>Columbus grass<br>Johnson grass<br>Liverseed grass<br>Mossman river grass<br>Paradoxa grass<br>Rhodes grass<br>Summer grass<br>Sweet summer grass<br>Volunteer barley<br>Volunteer wheat<br>Wild oats                                                                  | <i>Echinochloa</i> spp.<br><i>Cenchrus ciliaris</i><br><i>Sorghum x almum</i><br><i>Sorghum halepense</i><br><i>Urochloa panicoides</i><br><i>Cenchrus echinatus</i><br><i>Phalaris paradoxa</i><br><i>Chloris gayana</i><br><i>Digitaria ciliaris</i><br><i>Brachiaria eruciformis</i><br><i>Hordeum vulgare</i><br><i>Triticum aestivum</i><br><i>Avena ludoviciana</i><br><i>A. fatua</i>                                                                                                                                                                                 | 2 to 3 leaf      | 0.8 to 1.0 | Qld, Nthn<br>NSW, NT only | <b>Refer to Crop Establishment Procedures (5a)</b><br>Apply in 50 to 100 L of clean water/ha. Avoid spraying under hot dry conditions. Best results will be obtained when spraying is carried out in humid conditions or in the late evening. In a typical mixed weed situation use the rate recommended for the growth stage of the hardest-to-kill weed species.<br><br>Rates shown are for optimum conditions and for sowing equipment with wide points and cultivating tynes.<br><br><b>Tank Mix:</b> See Compatibility Section.<br><br>* For control of larger weeds prior to cereals add 0.5 to 1 L 2,4-D amine (500 g/L). Refer to relevant label for plant-back period. |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Sorghum<br>Stink grass                                                                                                                                                                                                                                                                                                                                            | <i>Sorghum bicolor</i><br><i>Eragrostis cilianensis</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2 to 3 leaf only | 0.8 to 1.0 |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <u>Seedling broadleaved weeds</u><br>African turnip weed<br>Annual saltbush<br>Australian bindweed<br>Australian bluebell<br>Blackberry nightshade<br>Bathurst burr<br>Bellvine<br>Black pigweed<br>Bladder ketmia<br>Caltrop<br>Caustic weed<br>Climbing buckwheat<br>Cowvine<br>Cudweeds<br>Deadnettle<br>European bindweed<br>Fat hen<br>Fireweed<br>Fleabanes | <i>Sisymbrium thellungii</i> *<br><i>Atriplex muelleri</i><br><i>Convolvulus erubescens</i><br><i>Wahlenbergia gracilis</i><br><i>Solanum nigrum</i><br><i>Xanthium spinosum</i><br><i>Ipomoea plebeian</i><br><i>Trianthema portulacastrum</i><br><i>Hibiscus trionum</i><br><i>Tribulus terrestris</i><br><i>Euphorbia</i> spp.<br><i>Polygonum convolvulus</i><br><i>Ipomoea lonchophylla</i><br><i>Gnaphalium</i> spp.<br><i>Lamium amplexicaule</i><br><i>Convolvulus arvensis</i><br><i>Chenopodium album</i><br><i>Senecio madagascariensis</i><br><i>Conyza</i> spp. | 1 to 4 leaf      | 0.8 to 1.0 |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|  | Fumitory<br>Hogweed<br>Malvastrum<br>Mexican poppy<br>Mintweed                                                                                                                                                                                                                                                                                                                                              | <i>Fumaria</i> spp.<br><i>Zaleya galericulata</i><br><i>Malvastrum americanum</i><br><i>Argemone</i> spp.<br><i>Salvia reflexa</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |            |  |  |
|  | <u>Seedling broadleaved weeds</u><br>Mungbean<br>Native Rosella<br>New Zealand spinach<br>Noogoora burr<br>Parthenium weed<br>Peppercress<br>Phyllanthus<br>Prickly lettuce<br>Prickly paddymelon<br>Red pigweed<br>Rhynchosia<br>Sesbania pea *<br>Sida<br>Smooth cucumber<br>Soft roly poly<br>Sowthistle<br>Soybean<br>Spiny emex<br>Sunflower *<br>Thornapples<br>Variegated thistle<br>Wild gooseberry | <i>Vigna radiata</i><br><i>Abelmoschus ficulneus</i><br><i>Tetragonia tetragonioides</i><br><i>Xanthium pungens</i><br><i>Parthenium hysterophorus</i><br><i>Lepidium</i> spp.<br><i>Phyllanthus</i> spp.<br><i>Lactuca seriola</i><br><i>Cucumis myriocarpa</i><br><i>Portulaca oleracea</i><br><i>Rhynchosia</i> spp.<br><i>Sesbania cannabina</i> *<br><i>Sida</i> spp.<br><i>Cucumis</i> spp.<br><i>Salsola kali</i><br><i>Sonchus</i> spp.<br><i>Glycine max</i><br><i>Emex australis</i><br><i>Helianthus annuus</i> *<br><i>Datura</i> spp.<br><i>Silybum marianum</i><br><i>Physalis minima</i> | 1 to 4 leaf | 0.8 to 1.0 |  |  |
|  | Boggabri                                                                                                                                                                                                                                                                                                                                                                                                    | <i>Amaranthus mitchellii</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 to 8 leaf | 0.8 to 1.0 |  |  |
|  | Hexham scent *                                                                                                                                                                                                                                                                                                                                                                                              | <i>Melilotus indicus</i> *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |            |  |  |
|  | Wild carrot                                                                                                                                                                                                                                                                                                                                                                                                 | <i>Daucus glochidiatus</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |            |  |  |
|  | Speedy weed                                                                                                                                                                                                                                                                                                                                                                                                 | <i>Flaveria australasica</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |            |  |  |

# **PUBLIC SERVICE AREAS, RIGHTS OF WAY, SPOT SPRAYING**

| Crop/Situation                                                               | Weeds Controlled                                | Rate/100L<br>High volume or<br>power sprayer | State      | Critical Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Public Service areas,<br>Rights of Way                                       | Most annual grasses<br>and broadleaved<br>weeds | 240 to 320 mL<br><br>(a) see below           | All States | Thoroughly wet plant foliage. Use the high rate for dense more established weed growth. Repeat treatment on regenerated green perennial weeds (such as paspalum and docks) while plants are weakened from previous treatment. Addition of oxyfluorfen (240g/L) at 250 mL/ha will improve control of small flowered mallow, evening primrose and other weeds sensitive to oxyfluorfen. Refer to the oxyfluorfen label.<br><br><b>Note:</b> Spot spray rate assumes 1000 L water/ha. For lower water volumes increase dilution rate as below:<br>Water volume 250 L/ha: use 960 to 1280 mL/100L<br>Water volume 500 L/ha: use 480 to 640 mL/100L<br>Water volume 750 L/ha: use 320 to 430 mL/100L |
| Market Gardens<br>and Nurseries<br>(spot spray only)                         |                                                 |                                              |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pre-crop emergence<br>weed control -<br>vegetable crops<br>(spot spray only) |                                                 |                                              |            | Prepare seed bed as long as possible before sowing to permit maximum weed germination. Spray the weeds, wait until they have dried off and then sow. If further weed germinations occur before crop emerges, spray again but at least 3 days before crop emerges. Spray when weeds are growing vigorously and not covered with soil or dust, or wilting due to dry conditions. When rain follows dry conditions allow 7 days for weed growth to commence before spray application. See Note on Spot spray rate above.                                                                                                                                                                           |
| Potatoes – (spot<br>spray only)                                              |                                                 | 240mL (a) see below                          |            | After planting and hilling up, wait until 10 to 15% of potato shoots are emerged then spray with Paraquat Diquat 250 Herbicide. Emerged potato shoots will suffer a marginal leaf burn but will quickly recover.<br>See Note on Spot spray rate above.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Wetting agent:<br>(a) Add 100 mL BS 1000 per 100L                            |                                                 |                                              |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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