STINGER™ HERBICIDE.

Your economical first strike on blackberry.
YOUR ECONOMICAL FIRST STRIKE ON BLACKBERRY

Stinger™ Herbicide is the new solution to large blackberry infestations. If you’re planning a serious war on woody weeds then Stinger Herbicide provides your economical, first strike. There’s less to retreat and better secondary weed control.

**KEY BENEFITS**

<table>
<thead>
<tr>
<th>KEY BENEFITS</th>
<th>metsulfuron + glyphosate mixes</th>
<th>STINGER</th>
<th>WHY?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Works better on key weeds</td>
<td>✗</td>
<td>✓</td>
<td>Includes aminopyralid - less regrowth to follow up in the second and third year</td>
</tr>
<tr>
<td>Doesn’t kill grasses</td>
<td>✗</td>
<td>✓</td>
<td>Retains pasture competition and smothers invading secondary weeds like Paterson’s curse and thistles</td>
</tr>
<tr>
<td>Much quicker brownout</td>
<td>✗</td>
<td>✓</td>
<td>Easy identification of where you’ve treated</td>
</tr>
<tr>
<td>Control of more weeds</td>
<td>✗</td>
<td>✓</td>
<td>Thistles are often the first to return when weeds are controlled</td>
</tr>
</tbody>
</table>

**THE AMINOPYRALID IN STINGER MAKES ALL THE DIFFERENCE**

Stinger contains 375 g/kg aminopyralid and 300 g/kg metsulfuron-methyl. Aminopyralid selectively controls broadleaf weeds in grasses and works better to suppress regrowth of secondary weeds.

**STINGER PROVIDES:**

- Superior control of secondary weeds
- Retention of grasses
- Faster brownout
- Less to retreat

**FAST BROWN OUT**

Using Stinger means you can see where you have treated within days.

**WHY STINGER HERBICIDE?**

1. No more of the “year two metsulfuron regrowth blues”. Stinger is proven to reduce regrowth.
2. Get faster into productivity, Stinger Herbicide protects grasses and is tough on blackberry and other key woody weeds.
**TOUGH ON SECONDARY WEEDS**

**STINGER VS METSULFURON REGROWTH CONTROL AFTER TWO YEARS (COST COMPARISON OVER TWO SITES)**

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Initial spray volume was 130 L per treatment over two sites. Quik Corp spray unit calibrated at 50 L per 410 seconds for output volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labour @ $60/hr</td>
<td></td>
</tr>
<tr>
<td>Respray treatment: Grazon Extra @ 500 mL/100 L</td>
<td></td>
</tr>
</tbody>
</table>

**SUGGESTED USE:**

- Superior control of secondary weeds
- Retention of grasses
- Faster brownout
- Less to retreat

**STINGER:**

- Economical enough to keep your bank manager onside, effective enough to knockdown blackberry with less regrowth than cheaper metsulfuron/glyphosate or other metsulfuron mixes.

**USING STINGER MEANS YOU GET INTO PRODUCTIVITY FASTER.**

**SECONDARY WEED CONTROL**

Often the biggest failing of weed control programmes is the invasion of secondary weeds. Removal of the primary weed often results in another weed filling the vacated space. Seedbeds under the controlled weed often harbour the seeds of thistles and other invasive weeds just waiting for the opportunity.

**Trial Details.**

Aerial trial sprayed in Orange NSW 11 May 2013 from a Bell Jet Ranger Helicopter using a 15 metre boom. Stinger 320 g/ha in 100 L water/ha + BS-1000 100 mL/100 L. Image taken 6 months after application.
# Directions for Use

High Volume Spraying (Hand Gun)

## Pasture and Non-Agricultural Situations

See label for more details.

### Non-Agricultural Areas (Native Pastures), Commercial and Industrial Areas, Rights-of-Way

**Adjuvant:** Always add BS1000 at 100 mL/100 L or an alternative (see the section “Use of Surfactant/Wetting Agent” in the General Instructions) unless Pulse® Penetrant or Uptake® Spraying Oil is recommended.

<table>
<thead>
<tr>
<th>Weeds Controlled</th>
<th>States</th>
<th>Rate (g/100 L Water)</th>
<th>Critical Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alligator weed</td>
<td>NSW, Qld only</td>
<td>20</td>
<td>Apply in terrestrial situations only. Follow-up applications over at least two seasons are essential for complete control.</td>
</tr>
<tr>
<td>Apple box (Annona philoxeroides)</td>
<td>NSW, Qld, SA only</td>
<td>20 + Pulse Penetrant (200 mL/100 L)</td>
<td>Apply to plants up to 4 m high. Ensure thorough foliage cover. Results cannot be guaranteed where suckers originate from large lignotubers.</td>
</tr>
<tr>
<td>Australian blackthorn (Bursaria spinosa)</td>
<td>NSW, Qld, Tas, Vic only</td>
<td>20</td>
<td>Spray to thoroughly wet all foliage, but not to cause run-off.</td>
</tr>
<tr>
<td>Bellavista bush (Jatropha gossypifolia)</td>
<td>Qld only</td>
<td>20 + Pulse Penetrant (200 mL/100 L)</td>
<td>Spray to thoroughly wet all foliage. Minimise contact with desirable species.</td>
</tr>
<tr>
<td>Bilu bush/Boneseed (Chrysanthenoides monilifera)</td>
<td>NSW, Qld, Vic, SA only</td>
<td>20</td>
<td>Spray to thoroughly wet all foliage. Minimise the risk of damage to native vegetation.</td>
</tr>
<tr>
<td>Blackberry (Rubus spp.)</td>
<td>All States</td>
<td>20 + Uptake® Spraying Oil (500 mL/100 L) or Pulse Penetrant (200 mL/100 L)</td>
<td>Spray to thoroughly wet all foliage and canes. Ensure peripheral runners are sprayed. Follow-up applications over at least two seasons are essential for complete control. Due to widespread picking of blackberries by the public, it is not recommended to apply to bushes bearing mature fruit.</td>
</tr>
<tr>
<td>Bridal creeper (Mysiphyllum asparagoides)</td>
<td>SA only</td>
<td>10</td>
<td>Apply during mid-June to late August. Follow-up applications over at least two seasons will be required for complete control. Water volumes of 500 to 800 L/ha are recommended to minimise the risk of damage to native vegetation.</td>
</tr>
<tr>
<td>Common bracken (Pteridium esculentum)</td>
<td>All States</td>
<td>20</td>
<td>Spray after full frond expansion. Spray to thoroughly wet all foliage but not to cause run-off.</td>
</tr>
<tr>
<td>Crofton weed (Eupatorium adenophorum)</td>
<td>Qld, NSW only</td>
<td>30</td>
<td>Spray to thoroughly wet all foliage but not to cause run-off. Extra care should be taken to get good spray penetration when spraying bushes situated in thickets. Best results obtained on younger plants. If regrowth occurs, retreat in the subsequent growth period.</td>
</tr>
<tr>
<td><strong>Adjuvant:</strong> Always add BS1000 at 100 mL/100 L or an alternative (see the section “Use of Surfactant/Wetting Agent” in the General Instructions) unless Pulse® Penetrant or Uptake® Spraying Oil is recommended.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Critical Comments:**
  - NSW only
  - Qld, NSW
  - Vic, Tas
  - SA only
  - All States
  - NSW, Vic, SA only

### See label for more details.

*Will damage legumes present in the pasture*
### DIRECTIONS FOR USE

**High Volume Spraying (Hand Gun)**

Tank mixes of Stinger with glyphosate (450 g/L)

See label for more details.

**NON AGRICULTURAL AREAS (NATIVE PASTURES*), COMMERCIAL AND INDUSTRIAL AREAS, RIGHTS-OF-WAYS**

Adjuvant: Always add BS 1000 at 100 mL/100 L or an alternative (see the section “Use of Surfactant/Wetting Agent” in the GENERAL INSTRUCTIONS) unless Pulse® Penetrant is recommended. High Volume Spraying (Hand Gun): Tank Mixes of STINGER with glyphosate (450 g/L)

<table>
<thead>
<tr>
<th>WEEDS CONTROLLED</th>
<th>STATES</th>
<th>RATE (g/100 L WATER)</th>
<th>CRITICAL COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blackberry (Rubus spp.)</td>
<td>All States</td>
<td>20 g + 160 mL glyphosate (450 g/L) + Uptake Spraying Oil (500 mL/100 L) or Pulse Penetrant (200 mL/100 L)</td>
<td>Apply in terrestrial situations only. Follow-up applications over at least two seasons are essential for complete control. Due to widespread picking of blackberries by the public, it is not recommended to apply to bushes bearing mature fruit.</td>
</tr>
<tr>
<td>Lantana (Lantana camara)</td>
<td>Old, NSW only</td>
<td>20 g + 160 mL glyphosate (450 g/L) + Pulse Penetrant (200 mL/100 L)</td>
<td>Apply to bushes up to 2 m tall. Ensure thorough spray penetration and coverage of the whole plant.</td>
</tr>
<tr>
<td>St. John’s wort (Hypericum perforatum)</td>
<td>NSW, Vic, SA, WA only</td>
<td>20 g + 160 mL glyphosate (450 g/L) + Pulse Penetrant (200 mL/100 L)</td>
<td>Apply to bushes up to 2 m tall. Spray to thoroughly wet foliage and stems. Spray should penetrate through the bush. Spray to wet, but not to cause run-off.</td>
</tr>
<tr>
<td>Tree-of-Heaven (Ailanthus altissima)</td>
<td>NSW only</td>
<td>20 g + 160 mL glyphosate (450 g/L) + Pulse Penetrant (200 mL/100 L)</td>
<td>Apply to bushes up to 2 m tall. Ensure thorough spray penetration and coverage of the whole plant.</td>
</tr>
</tbody>
</table>

*WILL DAMAGE LEGUMES PRESENT IN THE PASTURE*

#### Critical Comments

- Tank mixes of Stinger with glyphosate (450 g/L) may damage legumes present in the pasture.
- * Will damage legumes present in the pasture.

### Aerial Application (by Helicopter only)

See label for more details.

**WEEDS CONTROLLED, NON AGRICULTURAL AREAS, COMMERCIAL AND INDUSTRIAL AREAS, RIGHTS-OF-WAYS AND FLOODPLAINS**

Adjuvant: Always add BS 1000 at 100 mL/100 L or an alternative (see the section “Use of Surfactant/Wetting Agent” in the GENERAL INSTRUCTIONS).

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<tr>
<th>WEEDS CONTROLLED</th>
<th>STATES</th>
<th>RATE (g/ha)</th>
<th>CRITICAL COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blackberry (Rubus spp.)</td>
<td>NSW, Tas, Vic only</td>
<td>320</td>
<td>Apply when bushes are actively growing. (Vic only: Apply between December and April). Use not less than 100 L prepared spray/ha. Due to widespread picking of blackberries by the public, it is not recommended to apply to bushes bearing mature fruit.</td>
</tr>
<tr>
<td>Mimosa pigra</td>
<td>NT only</td>
<td>100 or 120</td>
<td>Use the higher rate when air temperature exceeds 35°C.</td>
</tr>
</tbody>
</table>

*WILL DAMAGE LEGUMES PRESENT IN THE PASTURE*

**OTHER WEEDS CONTROLLED BY STINGER**

- Alligator weed (Alternanthera philoxeroides)
- Fennel (Foeniculum vulgare)
- Lantana (Lantana camara)
- Ragwort (Senecio jacobaea)
- Apple box (Angophora floribunda)
- Golden dodder (Cuscuta australis)
- Messmate stringybark (Eucalyptus obliqua)
- Red gum (E. lakelvi)
- Australian blackthorn (Bursaria spinosa)
- Gorse (Ulex europaeus)
- Mistflower (Eupatorium riparium)
- Rubber vine (Cryptostegia grandiflora)
- Bellyache bush (Jatropha gossypifolia)
- Harrisia cactus (Eriocereus spp.)
- Noogoora burr (Xanthium pungens)
- Smartweed (Polygonum spp.)
- Bitou bush/Boneseed (Chrysanthemoides monilfera)
- Hawthorn (Crataegus laevigata)
- Parthenium (Parthenium hysterophorus)
- Sweet briar (Rosa rubiginosa)
- Bridal creeper (Mysisiphum asparagoides)
- Inkweed (Phytolacca octandra)
- Paterson’s curse (Echium plantagineum)
- Wait-a-while (Caesalpinia decapetala)
- Common bracken (Pteridium esculentum)
- Japanese sunflower (Tithonia diversifolia)
- Peppermint gum (E. radiata)
- Wild turnip (Brassica tournefortii)
- Crofton weed (Eupatorium adenophorum)
- Kangaroo thorn (Acacia paradoxa)
- Privet (Ligustrum spp.)
- Yellow box (E. melliflora)

STINGER HERBICIDE IS A NEW BROAD SPECTRUM WOODY WEED AND PASTURE HERBICIDE.

Apart from blackberry and gorse, the label covers forty one other weeds via application techniques like high volume, boom spray, aerial (Helicopter only), low volume high concentrate (gas gun) and use in tolerant grass pastures/pasture renovation. Additionally there are *Rights of way* applications registered.
STINGER™ HERBICIDE GENERAL INSTRUCTIONS

WITHHOLDING PERIODS
Grazing for meat production:
DO NOT graze for 56 days after application OR if grazing prior to 56 days after application DO NOT send animals for slaughter that have grazed treated pasture within 56 days of application UNLESS first placing the animals on clean feed for 3 days before leaving the farm.

Grazing for milk production:
DO NOT graze for 3 days after application.

Cutting for animal feed:
DO NOT cut for 56 days after application.

Grazing for meat production:
DO NOT graze for 56 days after application or if grazing prior to 56 days after application DO NOT send animals for slaughter that have grazed treated pasture within 56 days of application UNLESS first placing the animals on clean feed for 3 days before leaving the farm.

Grazing for milk production:
DO NOT graze for 3 days after application.

Cutting for animal feed:
DO NOT cut for 56 days after application.

GENERAL MIXING INSTRUCTIONS
Stinger Herbicide is a water dispersible granule to be mixed with water. STINGER should be added to the spray tank with simultaneous agitation. If ability to agitate the spray tank is limited, premix the STINGER in a bucket before adding to the main tank. Once diluted correctly, STINGER remains dispersed. The material must be kept in suspension at all times by continuous agitation.

THOROUGHLY RE-AGITATE IF LEFT STANDING
When prepared spray solution has been allowed to stand, thoroughly re-agitate before using. In tank mixes STINGER must be in suspension before adding the partner product or surfactant.

IF TANK MIXING WITH OTHER PRODUCTS
1. Quarter fill the spray tank, maintaining agitation, then:
2. Add STINGER (as described below left).
3. Add water to half fill the spray tank.
4. Add wettable powders, water dispersible granules or suspension concentrates.
5. Add emulsifiable concentrates.
6. Add the surfactant when spray tank is half full.
7. Add water to bring to the final spray volume.

USE OF SURFACANT/WETTING AGENT
Only BS1000® Biodegradable surfactant, Chemwet 1000 Wetting Agent, Uptake™ Spraying Oil or Pulse® Penetrant are recommended for use with STINGER. Not all surfactants or crop oils are of equal quality.
Dow AgroSciences does not support the use of products other than those listed above.

See the label for more instructions.

RESTRATNS
DO NOT spray if foliage is wet from rain or dew or rain is likely to occur within one hour or if heavy rain is likely to occur within 48 hours.
DO NOT store a suspension of Stinger or tank mixes for more than 1 day otherwise significant breakdown will occur.
DO NOT treat newly sown pastures as severe damage may occur.
DO NOT apply more than one application of STINGER either alone or tank-mixed per season.
DO NOT apply to blackberry bushes bearing mature fruit.
DO NOT burn off, cut or clear blackberry or other woody weeds for at least 6 months after spraying.
DO NOT apply by aerial application in wind in excess of 15 km/hr or air temperatures above 35ºC (except when applying to Mimosa pigra)
DO NOT apply to crops or weeds which may be stressed due to prolonged periods of extreme cold, moisture stress (water-logging or drought) or previous herbicide treatment as reduced levels of control may result. When treatment is followed by a severe stress such as drought, prolonged cold, water logging or frost condition, growth retardation may occur. In areas prone to flooding, treatment should commence after any annual flooding, as such areas flooded within 9 months following application may have reduced results.
NEW STRATEGY FOR LARGE BLACKBERRY INFESTATIONS
First Strike, Second Strike, Clean up.

FIRST STRIKE. YEAR 1
Knockdown large infestations with Stinger.
Stinger Herbicide is the new solution that delivers cost-effective knockdown of large-scale blackberry infestations.

SECOND STRIKE. YEAR 2-3
Follow up previous treatments with Grazon Extra.
It’s vital to follow up previously treated areas to control regrowth so you don’t waste the money you have initially invested.

CLEAN UP. YEAR 4-5
Clean up seedlings and spot spray with Grazon Extra.
Continue to check paddocks and ensure no seedlings become established. Spot spray with Grazon Extra Herbicide.

USE THE DOW AGROSCIENCES 3-CYCLE APPROACH

REGION | CONTACT | MOBILE
--- | --- | ---
Western and Central SA | Hugh Mayo | 0427 659 587
South East SA | Chris Brown | 0429 208 863
Central and Western VIC | Ashleigh Knight | 0408 063 084
Eastern Vic and Tas | Gregg Baynon | 0417 387 270
Southern Tablelands and SE Coast, NSW | Brad Davis | 0427 267 849
Central Tablelands, NSW | Dan Cornally | 0429 476 345
Northern Tablelands and Central Coast, NSW | Jon Dadd | 0427 460 290
North West NSW and Border Rivers Qld | Emma Twine | 0429 878 662
Northern Rivers NSW and South East Qld | Rosanna Common | 0419 203 195
Darling Downs Qld | Kevin Melmeth | 0427 700 207
Wide Bay & Burnett, Qld | Richard Jackman | 0427 229 177
Central Qld | Graham Fossett | 0427 458 432
North Qld | Ken Springall | 0409 871 141
IVM & Forestry Australia Wide | Geoff Messer | 0408 099 596

When faced with wall-to-wall blackberry, Stinger™ Herbicide is an effective, economical knockdown treatment. Use Stinger Herbicide for your initial knockdown spray and follow up with Grazon™ Extra Herbicide in year two. Clean up and inspect in years three and four.

Solutions for the Growing World

Confidence in a drum

Dow AgroSciences
www.dowagrosciences.com.au