

Front label for 5, 10, 20 and 110 containers

POISON

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



Hotshot* Herbicide

ACTIVE CONSTITUENTS: 10 g/L AMINOPYRALID present as triisopropanolamine salt
140 g/L FLUROXYPYR present as methylheptyl ester
SOLVENT: 418 g/L LIQUID HYDROCARBON

GROUP I HERBICIDE

For the control of climbing buckwheat and other broadleaf weeds in winter cereals, lantana and certain other pasture weeds.

IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USE.

Contents: 5, 10, 20 L and 110L

Dow AgroSciences Australia Limited

A.B.N. 24 003 771 659
Level 5, 20 Rodborough Road
Frenchs Forest NSW 2086
www.dowagrosciences.com.au

CUSTOMER SERVICE TOLL FREE 1-800 700 096

APVMA Approval No. 59173/5L, 10L, 20L 110L/0906
GMID:

* Trademark of Dow AgroSciences
Approved label Sept 06

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.
DO NOT store near food, feedstuffs, fertilisers or seed.

This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple or pressure rinse container for disposal. Dispose of rinsate by adding to the spray tank. Do not dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management site. The cap should not be replaced but may be taken separately.

If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SMALL SPILL MANAGEMENT

Wear protective equipment (see SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material for disposal when absorption is completed and contain in a refuse vessel for disposal (see STORAGE AND DISPOSAL section). If necessary wash the spill area with an alkali detergent and water and absorb as above the wash liquid for disposal as described above.

SAFETY DIRECTIONS

- Will damage the eyes.
- Will irritate the skin.
- Avoid contact with eyes and skin.
- If product in eyes, wash it out immediately with water.
- If product on skin immediately wash area with soap and water.
- Wash hands after use
- When opening the container preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves and goggles.
- After each day's use, wash gloves, goggles and contaminated clothing

FIRST AID

- If poisoning occurs, contact a doctor or Poisons Information Centre. (Phone: Australia 13 11 26)
- If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet for Hotshot Herbicide which is available from Dow AgroSciences on request. Call Customer Service Toll Free on 1-800 700 096 or visit www.dowagrosciences.com.au

NOTICE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions or under off-label permits not endorsed by Dow AgroSciences, or under abnormal conditions.

EMERGENCY RESPONSE

(All Hours)
RING FROM ANYWHERE IN AUSTRALIA
1-800 033 882
(LOCAL CALL FEE ONLY)



IN A TRANSPORT EMERGENCY ONLY
DIAL 000
FOR POLICE OR FIRE BRIGADE

Barcode
for stock
identification

D.O.M/Batch No.:

APVMA Approval No.:59173/5, 10 & 20/0906 GMID:

STORAGE AND DISPOSAL

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DO NOT store near food, feedstuffs, fertilisers or food.

Do not tamper with the dry valves or security seal. Do not contaminate the drum with water or any other foreign matter. After each use of the product ensure that the dry valve coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained. Add the rinsings to the spray tank. When the drum is empty close all valves and return to the point of purchase. The drum remains the property of Dow AgroSciences and must be returned.

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DIRECTIONS FOR USE

RESTRAINTS:

DO NOT apply to crops or weeds which are not actively growing or to plants which may be stressed (not actively growing) due to prolonged periods of extreme cold, moisture stress (water-logged or drought affected) or previous herbicide treatment, as crop damage or reduced levels of control may result.

DO NOT spray if rain is likely to occur within one hour.

AVOID double overlaps to reduce risk of injury to rotational crops the following season.

DO NOT apply by aerial application.

Table 1: Northern New South Wales and Queensland

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS
Barley, Oats, Triticale, Wheat	Apply from 3 leaf to first node (Z13 to Z31)	Climbing buckwheat (<i>Fallopia convolvulus</i>) (black bindweed)	Seedling up to 2-4 leaf	500 mL	
			Seedling up to 6-8 leaf	750 mL	
	Prickly lettuce (<i>Lactuca serriola</i>) Vetch (<i>Vicia sativa</i>) Volunteer chickpea (<i>Cicer arietinum</i>) Volunteer faba bean (<i>Vicia faba</i>) Volunteer field pea (<i>Pisum sativum</i>)	Seedling up to 4 leaf			
		Common sowthistle (<i>Sonchus oleraceus</i>) Deadnettle (<i>Lamium amplexicaule</i>) Wireweed (<i>Polygonum aviculare</i>)	Seedling up to 4 leaf	500 – 750 mL + 5 g metsulfuron (600 g/kg)	
Apply from 4 leaf to first node (Z14 to Z31)	Common sowthistle (<i>Sonchus oleraceus</i>) Spiny emex (<i>Emex australis</i>) Variegated thistle (<i>Silybum marianum</i>)		500 – 750 mL + 500 or 700 mL MCPA LVE	Use the higher rate of MCPA LVE only from 5 leaf cereal growth stage onwards. Mustards, turnip weed, volunteer canola and wild turnip will also be controlled.	
Wheat	Apply from 3 leaf to first node (Z13 to Z31)	Wild oats (<i>Avena sterilis</i> ssp. <i>ludoviciana</i>) (<i>Avena fatua</i>) (non 'fop' resistant)	2 to 4 leaf	500 – 750 mL + 85 mL Topik® 240 EC	Add Uptake* Spraying Oil at the rate of 500 mL/100 L water

Table 2: Northern New South Wales and Queensland.

SITUATION	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS
Fallow	Climbing buckwheat (<i>Fallopia convolvulus</i>) Red pigweed (<i>Portulaca oleracea</i>)	Seedling up to 4 leaf	500 mL + glyphosate	When mixing with glyphosate to control both grass and broadleaf weeds, refer to the glyphosate label for use rates and adjuvants recommended for the grasses.

Table 3: Southern New South Wales, Victoria, South Australia and Western Australia

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS
Barley, Oats, Triticale, Wheat	Apply from 3 leaf to first node (Z13 to Z31)	Volunteer faba bean Volunteer field pea Volunteer lupin Volunteer vetch	Seedling up to 4 leaf	500 mL	DO NOT plant susceptible crops for up to 20 months after application, as specified in GENERAL INSTRUCTIONS - MINIMUM RECROPPING PERIODS.

Table 4: Woody Weed Situations – High Volume Treatment/Spot Spray

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE /100 L Water	CRITICAL COMMENTS
Fireweed (<i>Senecio madagascariensis</i>)	Flowering plants up to 30 cm tall	All States	500 mL	Apply to actively growing plants from October to April.
Thistles, including Spear thistle (<i>Cirsium vulgare</i>)	Rosette stage prior to stem elongation			
Lantana (<i>Lantana camara</i>)	Seedlings and regrowth from 0.5 to 1.2 m high	All States	700 mL	Spray to ensure thorough coverage of all foliage, including stems, to the point of runoff.
	Mature plants and regrowth from 1.2 to 2 m high			
Cockspur thorn (<i>Maclura cochinchinensis</i>)	Up to 3 m high			
Creeping lantana (<i>Lantana montevidensis</i>)	At flowering			
Crofton weed (<i>Ageratina adenophora</i>) Mistflower (<i>Ageratina riparia</i>)	Seedlings and young plants up to flowering			
Docks (<i>Rumex</i> spp.)	Seedlings and rosettes up to 30 cm high			
Small flowered mallow (Marshmallow) (<i>Malva parviflora</i>)	Seedlings and young plants up to flowering			

St. John's wort (<i>Hypericum perforatum</i>)	From flowering to early seed set		Late spring to early summer
Wattles, including <i>Acacia aulacocarpa</i> <i>A. decora</i> <i>A. harpophylla</i> <i>A. leiocalyx</i> <i>A. salicina</i>	Seedling plants or regrowth 0.5 to 1.2 m high		Apply to actively growing plants when soil moisture is plentiful. Some regrowth may occur particularly when treating old woody plants with sparse canopies and under dry conditions.

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

® Registered Trademark

WITHHOLDING PERIOD

Cereals (Barley, Oats Triticale and Wheat,):

Harvest: NOT REQUIRED when used as directed.

Grazing: DO NOT graze or cut crops for stock food for 7 days after application.

Pasture:

Cutting or Grazing Pastures for Stock Food: NOT REQUIRED when used as directed.

LIVESTOCK DESTINED FOR EXPORT MARKETS

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, that the Export Slaughter Interval, Export Grazing Interval or Export Animal Feed Interval is observed before stock are sold or slaughtered.

EXPORT SLAUGHTER INTERVAL (ESI) – 3 days:

After observing the grazing withholding period, livestock that has been grazed on or fed treated pasture should be placed on clean feed for 3 days prior to slaughter.

EXPORT GRAZING INTERVAL (EGI) – 42 days.

Livestock that has been grazing on treated pasture should not be sold for export slaughter for 42 days (6 weeks) after application of the chemical product, unless the export slaughter interval has been observed.

EXPORT ANIMAL FEED INTERVAL (EAFI) – 42 days

Do not cut treated pasture for 42 days (6 weeks) after application of the chemical product for stock feed or animals intended to be slaughtered for export.

When Hotshot Herbicide is used as directed and the above withholding periods and/or export intervals are observed, treated grain and livestock commodities are considered acceptable for export. However, export requirements are subject to change. Consult your exporter for updated information about specific market requirements.

GENERAL INSTRUCTIONS

MINIMUM RECROPPING PERIODS

Aminopyralid remains active in the soil for extended periods depending on rate of application, soil type (clay content), rainfall, temperature, humidity, soil moisture and soil organic matter. The following tables show plant-back periods to particular crops following application of Hotshot in different areas in Australia.

Northern New South Wales & Queensland

Plant-back periods for rotational crops following application of Hotshot for rates up to 750 mL/ha on black cracking clay soils. These plant-back periods are based on normal rainfall pattern. During drought conditions (or when rainfall is less than 100 mm for a period of 4 months or greater) the plant-back period may be significantly longer.

Winter Crop	Plant-back Period (months)	Summer Crop	Plant-back Period (months)
Wheat	4	Sorghum	3
Barley	4	Mungbean	5
Canola	4	Sunflower	5
Chickpea	6	Soybean	5
Faba bean	6	Cotton	9
Lucerne	6		

Southern New South Wales, Victoria, South Australia & Western Australia

Plant-back periods for rotational crops following application of Hotshot for rates up to 500 mL/ha.

Crops	Plant-back Period (months)
Barley, Canola, Wheat	9
Chickpea, Faba bean, Field pea, Lucerne, Lupin, Medic, Subclover	20

Note: Before using Hotshot in tank mixes with other herbicides, check the plant-back information on all product labels. The most residual product, i.e. the product with the longest plant-back period, will determine the time between spraying and planting the next crop.

MIXING

- Hotshot can be mixed with water only.
- Mix only sufficient chemical for each day use and avoid storing mix.
- Half fill the spray tank with water and add the required quantity of Hotshot and complete filling. Agitate continuously to ensure thorough mixing before and during application.

Tank mixtures: Wettable powder or dry flowable formulations (e.g. water dispersible granules) should be added to the spray tank first, followed by suspension concentrates (flowables), water soluble salts and then emulsifiable concentrate formulations (e.g. Starane* 200 Herbicide). Add spraying oils and surfactants (wettters) last, if required.

COMPATIBILITY

Hotshot is compatible with the following:

(Read and follow all label directions, RESTRAINTS, PLANT-BACK periods, WITHHOLDING PERIODS and SAFETY DIRECTIONS on the partner label as well as those on the Hotshot label).

Broadleaf Herbicides

MCPA LVE
chlorsulfuron

metsulfuron-methyl
Eclipse[®]

Starane* 200 Herbicide
glyphosate

Grass Herbicides

Topik[®] 240EC (wild oats only)

Adjuvants

BS-1000 (when mixed with metsulfuron-methyl)

Uptake* Spraying Oil (when mixed with Topik[®] 240EC)

APPLICATION METHODS

Broadcast application in cropping situations.

A. Ground Application (Boom)

- Apply Hotshot with an accurately calibrated boom sprayer, in at least 80L/ha water.
- Use a medium quality spray as defined by ASAE (S572).
- Set the boom at a height to ensure a double overlap of the nozzle pattern.

Woody weed situations

A. High Volume Spot Spraying Application

- Apply the recommended mix to obtain full coverage of leaves and stems using a coarse to very coarse quality spray as defined by ASAE (S572) eg a number 6 – 8 spray tip at 700 to 1500 kPa. To obtain good coverage, a spray volume of 3000 L water/ha is required per treated hectare.
- Spray to ensure thorough coverage of all foliage, including stems to the point of runoff.

CLEANING SPRAY EQUIPMENT

Rinse water should be discharged onto a designated disposal area or, if this is unavailable, onto wasteland away from desirable plants and water courses.

Rinsing: After using Hotshot Herbicide, empty the tank completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Drain, and clean any filters in the tank, pump, lines, hoses and nozzles

After cleaning the tank as above, quarter fill with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Decontamination (before spraying cotton and other sensitive crops; see PROTECTION OF CROPS, NATIVES AND OTHER NON-TARGET PLANTS):

Wash the tank and rinse the system as above. Then quarter fill the tank and add a standard alkali based laundry detergent at 500g (or mL)/100L water and circulate throughout the system for at least 15 minutes. If using a concentrated laundry detergent use 250g (or mL)/100L water. Do not use chlorine based cleaners.

Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow draining.

RESISTANT WEEDS WARNING

GROUP I HERBICIDE

Hotshot Herbicide contains members of the pyridine group of herbicides. The product has the disrupters of plant cell growth mode of action. For weed resistance management, the product is a Group I Herbicide.

Some naturally-occurring weed biotypes resistant to the product and other disrupters of plant cell growth 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 this product or other disrupters of plant cell growth herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Dow AgroSciences Australia Limited accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or local Dow AgroSciences representative.

PROTECTION OF CROPS, NATIVES AND OTHER NON-TARGET PLANTS

DO NOT use on land to be cultivated for growing susceptible crops for up to 20 months of applying Hotshot, except where indicated in the MINIMUM RECROPPING PERIODS section of the GENERAL INSTRUCTIONS. Legumes, vines, vegetables, cotton, tomatoes, ornamentals and many other plants are highly susceptible to this herbicide during both growing and dormant periods. Cereal crops, canola and grasses can be sown safely after using HOTSHOT.

This product will kill legumes (clovers, medics) present in the crop at the time of spraying. In the season, following application of this product the regeneration or establishment of sensitive legumes (clover, medics, peas, and lupins) may be adversely affected by soil residues.

DO NOT allow spray drift onto sensitive native vegetation or susceptible crops, such as cotton, tomatoes, vines, fruit, potatoes, vegetables, ornamentals, tobacco, lupins and other legumes, safflower, sugar beet, hops, flowers or shade trees. **DO NOT** use under meteorological conditions or with spraying equipment likely to produce drift. Minimise spray drift by using low pressures and nozzles, which **DO NOT** give a fine droplet size.

DO NOT apply close to or on areas containing roots of desirable vegetation, where treated soil may be washed to areas growing, or to be planted to desirable plants, or on sites where surface water from heavy rain can be expected to run off to areas containing or to be planted to susceptible crops or plants.

DO NOT move soil, which may have been sprayed, to areas where desirable plants are to be grown.

DO NOT apply Hotshot Herbicide to crops or pastures, which are intended to be cut for the production of compost or mulches to be used with susceptible crops or plants. The use of straw, hay or other plant material treated with Hotshot Herbicide for composting or mulching susceptible crops may damage these crops. Do not use HOTSHOT Herbicide on plants that will be used to make mushroom substrate because if the substrate is not properly cured aminopyralid residues may remain in the spent substrate or the mushrooms.

DO NOT use manure from animals grazing treated areas or feeding on treated hay on land used for growing broadleaf crops, ornamentals, orchards or other susceptible, desirable plants as injury to susceptible plants may occur.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.

DO NOT store near food, feedstuffs, fertilisers or seed.

The method of disposal of the container depends on the container type. Read the STORAGE AND DISPOSAL instructions on the label that is attached to the container.

SMALL SPILL MANAGEMENT

Wear protective equipment (see SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material for disposal when absorption is completed and contain in a refuse vessel for disposal (see STORAGE AND DISPOSAL section). If necessary wash the spill area with an alkali detergent and water and absorb as above the wash liquid for disposal as described above.

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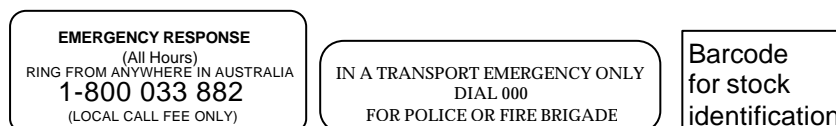
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