POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



Verdict* 520

Herbicide

ACTIVE CONSTITUENT: 520 g/L HALOXYFOP present as the haloxyfop-R methyl

ester

GROUP A HERBICIDE

For the post-emergent control of a wide range of annual and perennial grass weeds in grain legume and oilseed crops, lucerne, medic and clover pasture and seed crops, forestry, bananas, citrus, grapes, pineapples, pome and stone fruit, pyrethrum, tropical fruit and nut crops as specified in the Directions For Use.

Important: Read the attached booklet before use

Dow AgroSciences Australia Limited A.B.N. 24 003 771 659 20 Rodborough Road Frenchs Forest NSW 2086 www.dowagrosciences.com.au

CUSTOMER SERVICE TOLL FREE 1-800 700 096

Contents: 250 Millilitre 1 Litre 5 Litre 10 Litre 20 Litre

NRA Approval No.: 50643/ GMID:

* Trademark of Dow AgroSciences

Verdict 520 Approved Label 30-09-03

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 feedstuffs, fertilisers or seeds.
- Triple rinse or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.
- If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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, cat litter or clay granules to the spill. When absorption is complete, sweep up material 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 this wash liquid for disposal as described above.

SAFETY DIRECTIONS

- Harmful if swallowed.
- Will irritate the eyes and skin.
- Avoid contact with the eyes and skin.
- When preparing spray wear cotton overalls buttoned to the neck and wrist

- and a washable hat, elbow-length PVC gloves and face shield or goggles.
- After each day's use, wash gloves, face shield or goggles and contaminated clothing.
- · Wash hands after use.

FIRST AID

- If poisoning occurs, contact a doctor or Poisons Information Centre (Phone: 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 on the Material Safety Data Sheet for Verdict 520 Herbicide which is available from Dow AgroSciences on request. Call Customer Service Toll Free on 1-800 700 096

NOTICE

Seller warrants that the product conforms to its chemical description and 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.:

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Verdict 520 Approved Label 30-09-03

DIRECTIONS FOR USE

RESTRAINTS:

DO NOT apply to weeds which may be stressed (not actively growing) due to prolonged periods of extreme cold, moisture stress (waterlogged or drought affected), poor nutrition or previous herbicide treatment as reduced levels of control may result.

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

Table 1a. Winter crops - Canola, Chickpeas, Faba beans, Field peas, Lentils, Linola,

Linseed Lunins Lucerne Vetch Medic and Clover pastures or seed crops

•		· · · · · · · · · · · · · · · · · · ·	TE	pastures or seed crops
WEEDS CONTROLLED	WEED	(mL/ha)		CRITICAL COMMENTS
30	GROWTH STAGE	with Uptake*① Spraying Oil	with a non- ionic wetter2	① ② See GENERAL INSTRUCTIONS, Spraying oils/wetters section.
Annual ryegrass	2 to 4 leaf	75	100	
	early tillering	100	100	FIELD PEAS AND CANOLA: The only oil recommended for use with
Barley grass Brome grass	2 to 4 leaf	50	75	Verdict 520 is Uptake* Spraying Oil.
Paradoxa grass Volunteer cereals	early tillering	75	100	Verdict 520 + Lontrel 750 SG + Uptake* Spraying Oil are compatible and selective
Wild oats WA, SA, Vic, Tas,	2 to 4 leaf	37.5	50	to canola. This tank-mix is also compatible with atrazine and selective to
Southern and Central NSW	early tillering	50	75	triazine tolerant canola.
Wild oats	2 to 4 leaf	50	75	LUPINS AND FIELD PEAS: Mixtures with Brodal® or simazine may
Northern NSW & Qld	early tillering	75	100	cause crop yellowing and separate applications are recommended.
				CHICKPEAS, FABA BEANS, LENTILS AND VETCH, LINOLA, LINSEED:. Broadleaf herbicides should not be added to Verdict 520. Apply Verdict 520 and broadleaf herbicides at least a week apart.
				LUCERNE, CLOVER OR MEDIC PASTURES: If grazed or cut for hay immediatley prior to treatment delay application until all grasses have fully expanded leaves. Use 75 mL + spraying oil or 100 mL + wetter/ha. (See GENERAL INSTRUCTIONS, Spraying Oils/wetters section). If silver grass (Vulpia spp.) is present in pasture, simazine should be tank mixed with the higher rate of Verdict 520 plus a non-ionic wetter.

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Table 1b. Winter crop growth stage application windows

Crop	Crop Growth Stage			
Lucerne, Medic and Clover pastures or seed	Apply from 2 nd trifoliate leaf onwards. For <i>Erodium spp</i> .			
crops	spraying, apply from cotyledon crop stage onwards.			
Canola,	Apply from 2 nd leaf to prior to bud formation and stem elongation			
Linola, Linseed	Apply from 5cm to flowering			
Chickpeas, Faba beans, Field peas, Lentils, Lupins, Vetch	Apply from 2 nd leaf, 2 nd node or 2 nd branch to prior to flowering			

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Table 2a. Lucerne, Medic and Clover seed crops and pastures. See table 1b for crop stages

WEEDS CONTROLLED	WEED GROWTH STAGE	RATE (mL/ha) with Uptake① Spraying Oil	CRITICAL COMMENTS		
Prairie grass (<i>Bromus catharticus</i>)	Up to early tillering	100	① See GENERAL INSTRUCTIONS, Spraying oils/wetters section.		
Musky or ferny leaf Storksbill: (Erodium moschatum) Common Crowsfoot or Common Storksbill (Erodium cicutarium)	Up to 6 leaf or 5 cm diameter	50 - 75 ③	③ Use lower rate when growing conditions an crop or pasture competition are good and whe weed populations are below 100 plants/m². Use the higher rate when weed populations are above 100 plants/m² or when crop or pasture		
Long or shiny leaf storksbill (<i>E. botrys</i>)	Up to 8 leaf or 5 cm diameter	75-100			

Table 2b. Lucerne, Medic and Clover seed crops only - not to be used for stockfeed.

See table 1b for crop stages

Couch grass (suppression), Rhodes grass (control)	Tillering seedlings	 For best suppression of couch or control of Rhodes grass, make 2 applications of Verdict 520 2-4 weeks apart. Time second application to coincide with tillering stage of weeds and just after irrigation or significant rain.
Couch grass (control) Rhodes grass (control)	Established stands	Only treat actively growing weeds which are not moisture stressed. Use these rates for control of couch and Rhodes grass

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Table 3a. Summer crops – Cotton, Cowpea, Lucerne, Mung bean, Navy beans, , Peanuts, Soybeans, Sunflowers.

WEEDS CONTROLLED	WEED GROWTH STAGE	RATE (mL/ha) with Uptake① Spraying Oil	CRITICAL COMMENTS
Australian millet	2 leaf to tillering up to 15 cm	150	① See GENERAL INSTRUCTIONS, Spraying oils/wetters section.
Barnyard grass	2 to 5 leaf	100	NAVY BEANS, PEANUTS, SOYBEANS: For broadleaf weed control, Verdict 520 at
	tillering up to 15 cm	150	150mL/ha plus wetter may be tank mixed with
Crowsfoot grass Green panic Johnson grass (rhizome)	2 leaf to tillering up to 15 cm	150	Blazer® (except on navy beans) or Basagran® Tank mixtures may cause transient leaf spotting on the crop but do not normally affect yield.
Johnson grass (seedling) Liverseed grass (seedling) Mossman river grass	2 to 5 leaf	100	DO NOT tank mix broadleaf herbicides with Verdict 520 if grasses have begun tillering or if
	tillering and up to 15 cm	150	the grasses are under moisture stress.
Summer grass	2 leaf to tillering up to 15 cm	150	DO NOT add Uptake Spraying Oil when mixing with Blazer or Basagran.
Volunteer cereals	2 to 4 leaf tillering up to 15 cm	100 150	DO NOT use Blazer or Basagran tank-mixes on cowpea.

Table 3b. Summer crop growth stage application windows

Crop	Crop Growth Stage
Lucerne	Apply from 2 nd trifoliate leaf onwards
Cowpea, Mung beans, Navy beans, Soybeans	Apply from 2 nd leaf to flowering
Peanuts	Apply from 2 nd leaf to pegging
Cotton	Apply from 2 nd leaf to before the onset of flowering
Sunflowers	Apply from 2 nd leaf to head initiation

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Table 4. Annual and Perennial grasses and *Erodium* spp. in Orchard, Vine and

Plantation crops, forestry, and pyrethrum.

CROPS	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE (mL/ha) with Uptake Spraying Oil①	CRITICAL COMMENTS
Orchard, vine and plantation Crops including: Apples Avocado		Perennial grasses: Couch Rhodes grass Slender rats tail grass	Established stands	400 — 800	① See GENERAL INSTRUCTIONS, Spraying oils/wetters section. Spray should be directed to the base of the tree or vine avoiding contact with fruit and foliage.
Banana Blueberry Citrus Custard apple Feijoa Grapevines		Buffel grass Green panic Johnson grass Kikuyu Paspalum spp Setaria spp	Vegetative to early tillering	200	Spot spray: Use 25 mL to 50 mL/100 L of water. Use higher rate on late tillering mature grasses.
Guava Kiwifruit			Late tillering	400	Annual Grasses: Where treated in association with perennial grasses, these
Litchi (Lychee) Longan Mango Nashi Nut trees Passionfruit Paw paw Pear Persimmon Pineapple Rambutan Stone fruit Forestry: Pinus radiata Eucalyptus spp.		Annual ryegrass Barley grass Barley grass Barnyard grass Brome grass Crowsfoot grass Lesser canary grass Liverseed grass Mossman river grass Paradoxa grass Summer grass Volunteer cereals Wild oats	2 leaf to tillering	200	annual grasses will be controlled.
Forestry: Pinus pineaster		Annual grasses as above	Vegetative to tillering	125 - 250	Forestry: For annual grasses apply lowest rate to newly emerged grasses, increasing the rate as they devlop.
Pyrethrum		Barley grass Brome grass Rope twitch Barynard grass <i>Erodium</i> spp. Volunteer cereals	Vegetative to tillering	100 - 250	Pyrethrum Tasmania only: For Erodium spp apply 75-100mL/ha if the main weed is E. botrys. Use 50 - 75 mL/ha if either E. cicutarium or E. moschatum are the main weeds.

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Table 5. Verdict 520 and Select® Herbicide tank-mixes – Canola, Chickpeas, Faba beans, Field peas, Lupins, Lentils

WEEDS CONTROLLED	WEED GROWTH STAGE	RATE (mL/ha)		CRITICAL COMMENTS
		Verdict 520	Select Herbicide	
FOP/DIM susceptible Annual ryegrass + Volunteer barley Volunteer wheat Brome grass	2 to 4 leaf	25		See GENERAL INSTRUCTIONS, Spraying oils/wetters section. Use Uptake Spraying Oil at 500mL/100L or Hasten at 1L/100L. Apply at the same crop growth stages as those in
Wild oats Barley grass Phalaris	Early tillering	38	150	Table 1b Winter Crops. Lentils: Apply up to 7 node-early branching crop
FOP resistant Annual ryegrass +	2 to 4 leaf	25	200	growth stage only. Lupins: Not for Qld.
Volunteer barley Volunteer wheat Brome grass Wild oats Barley grass Phalaris	Early tillering	38	250	

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

HARVESTING WITHHOLDING PERIODS

NOT REQUIRED WHEN USED AS DIRECTED FOR:

Canola, chickpeas, cotton, cowpea, faba beans, field peas, lentils, linola, linseed, lupins, mung beans, navy beans, peanuts, soybeans, sunflowers or vetch.

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DO NOT HARVEST FOR:

Medic and clover seed crops: 7 DAYS AFTER APPLICATION

STOCK FOOD WITHHOLDING PERIODS:

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR:

Canola, chickpeas, cotton, cowpea, faba beans, field peas, lentils, linola, linseed, lupins, navy beans, peanuts, soybeans, sunflowers

and vetch:

Lucerne:

28 DAYS AFTER APPLICATION

21 DAYS AFTER APPLICATION

Medic and clover pasture:

7 DAYS AFTER APPLICATION

COTTON GIN TRASH MUST NOT BE FED TO ANIMALS.

GENERAL INSTRUCTIONS Mixing

- Add water to the spray tank to 10 cm above the level of agitation and ensure the agitation device is working vigorously. (There must be a minimum of 100 L of water in the tank before any pesticide is added.)
- If tank mixing, firstly, add any soluble liquid formulations (e.g. LONTREL* Herbicide) and allow agitation for approximately one minute.
- Then add Verdict 520 at the point where agitation is strongest. (Do not add Verdict
 520 through a strainer or sieve). Allow further agitation for one minute.
- Half fill the spray tank.
- If using wettable powder or water dispersible granules, or other emulsifiable concentration formulations (e.g. LORSBAN* 750WG or LE-MAT®, these should be added after the Verdict 520 to the half full spray tank ensuring vigorous agitation.
- Finally add Uptake* Spraying Oil or approved alternate spraying oil/wetter. (See section on spraying oils/wetters) and continue filling the tank to the required volume maintaining agitation at all times.
- Only mix sufficient solution for immediate use. Verdict 520 and any other tank mixes should be applied immediately for best results.

Spraying Oils/wetters

- **Spraying Oils:** It is essential to add an adjuvant to Verdict 520. Best results will be achieved with Uptake* Spraying Oil at 0.5 L/100 L of spray solution. Alternatively, other oils plus a non-ionic wetter may also be used. When other crop spraying oils are used, mix at 1.0 L/100 L and add a non-ionic wetter (surfactant) at 200 mL/100 L of spray solution. **Use of an oil is not always recommended**. See Critical Comments for specific situation recommendations.
- **Non-ionic Wetters:** When Uptake or other oils are not used, a 100% concentrate non-ionic wetting agent such as BS-1000[®] at 200 mL/100 L must be used along with the higher rate of Verdict 520 as specified in the Directions For Use.

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Where water volumes of less than 50 L/ha are used, **DO NOT** use less than 250 mL/ha of Uptake or 500 mL/ha for oils other than Uptake or less than 100 mL/ha of wetter.

CANOLA, LUCERNE, MEDIC AND CLOVER PASTURES AND SEED CROPS:

When tank mixing Verdict 520 with Lontrel herbicides (canola only) or Broadstrike (lucerne, clover and medics), use Uptake Spraying Oil with the lower rates of Verdict 520 or a wetting agent with the higher rates of Verdict 520 unless otherwise specified. When mixing Verdict 520 with other broadleaf herbicides on these crops, DO NOT use an oil use a wetter instead.

FIELD PEAS AND CANOLA:

The oil recommended is Uptake Spraying Oil. Hasten is also recommended for use with tank-mixtures of Verdict 520 and Select Herbicide.

For canola, Verdict 520 + Lontrel 750SG + Uptake Spraying Oil are compatible and selective to canola. This tank-mixture is also compatible with atrazine or simazine and selective to triazine tolerant canola.

NAVY BEANS, PEANUTS, SOYBEANS:

When mixing with Blazer or Basagran DO NOT add spraying oil to these mixtures. **DO NOT** use these tank-mixes on cowpea.

Compatibility:

Ground use only: Verdict 520 Herbicide can be tank mixed with:

Insecticides: dimethoate

endosulfan

Lorsban* 500 EC Insecticide Lorsban* 750WG Insecticide

omethoate

Herbicides: atrazine

Basagran® Blazer®

Broadstrike* Herbicide Lontrel* Herbicide Lontrel* 750SG

MCPA ester (LVE) - DO NOT exceed 700 mL/ha of MCPA LVE

Oryzalin

Select® Herbicide

simazine

Starane 200 Herbicide

Fungicides: Dithane DF*

Dithane Rainshield

Trace elements: magnesium sulphate

zinc sulphate

Verdict 520 Herbicide is NOT COMPATIBLE with 2,4-D or MCPA as sodium or amine salts.

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<u>Aerial use:</u> No product other than a recommended crop oil or wetter should be mixed with Verdict 520 Herbicide when applied by air except for addition of Lontrel Forestry Herbicide for use in forestry and Lontrel 750SG for use in canola only.

Application

Apply Verdict 520 Herbicide in sufficient water to obtain good coverage. It should be applied by an accurately calibrated ground rig or aircraft delivering droplets with a VMD of 200-300 microns.

The following spray volumes are recommended.

Ground application 50-150 L/ha
Aerial application 30 L/ha minimum

Use higher water volumes in orchards and in dense crops where the weeds may be shielded by the crop canopy.

CLEANING SPRAY EQUIPMENT

If broadleaf herbicides, particularly sulfonylureas, have been used in the spray equipment at any time prior to Verdict 520, particular care should be taken to follow the directions on the relevant broadleaf herbicide label for equipment cleaning, or damage to susceptible crops may occur.

After using Verdict 520, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean any filters in the tank, pump, line and nozzles.

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

To decontaminate. Before spraying cereals, maize, sorghum or other sensitive crops, wash the tank and rinse the system as above. Then quarter fill the tank and add an alkali detergent (e.g. SURF®, Cold Water SURF Concentrate®, DynamoMatic Concentrate®, OMO® or DRIVE®) at 500 mL/100 L of water or the powder equivalent at 500 g/100 L of water, and circulate throughout the system for at least fifteen minutes. Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain. Chlorine based cleaners are not recommended.

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

RESISTANT WEEDS WARNING



Verdict 520 Herbicide is a member of the aryloxyphenoxy propionate group of herbicides. The product has the acetyl CoA carboxylase inhibitor mode of action. For weed resistance management Verdict 520 Herbicide is a Group A herbicide.

Some naturally occurring weed biotypes resistant to the product and other inhibitors of acetyl CoA carboxylase 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 the product or other inhibitors of acetyl CoA carboxylase.

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Since the occurrence of resistant weeds is difficult to detect prior to use, Dow AgroSciences accepts no liability for any losses that may result from the failure of the 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, NATIVE AND OTHER NON-TARGET PLANTS

- Verdict 520 Herbicide damages cereals and grasses.
- DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.
- Cereal crops or grasses planted within twelve weeks of application may be damaged by the residual effects of Verdict 520 Herbicide, particularly on light and red soils.

PROTECTION OF LIVESTOCK

 DO NOT graze or cut treated crops for stock food except as specified under withholding periods.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

- Verdict 520 Herbicide is toxic to fish.
- **DO NOT** contaminate streams, rivers or waterways with the chemical or used container.

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 feedstuffs, fertilisers or seeds.
- Triple rinse or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.
- If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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, cat litter or clay granules to the spill. When absorption is complete, sweep up material 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 this wash liquid for disposal as described above.

SAFETY DIRECTIONS

Harmful if swallowed.

- Will irritate the eyes and skin.
- Avoid contact with the eyes and skin.
- When preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.
- After each day's use, wash gloves, face shield or goggles and contaminated clothing.
- · Wash hands after use

FIRST AID

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

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