

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

Exert[®] 520 Herbicide

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

GROUP	A	HERBICIDE
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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.

READ COMPLETE DIRECTIONS FOR USE BEFORE USING THIS PRODUCT.

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APVMA Approval No.: 61678/0714

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, Lupins, Lucerne, Vetch, Medic and Clover pastures or seed crops

WEEDS CONTROLLED	WEED GROWTH STAGE	Rate with Supercharge [®] Spray Tank Adjuvant ^{#1}	Rate with BS1000 ²	CRITICAL COMMENTS
Annual ryegrass	2 to 4 leaf	75mL/ha	100mL/ha	CANOLA, LINOLA and LINSEED DO NOT apply after the 8 leaf stage of the crop. DO NOT apply after the Commencement of stem elongation. This means that application must not occur after the 8 leaf stage, or if stem elongation commences before the 8 leaf stage, application must not occur after stem elongation has commenced. DO NOT apply more than 1 application of herbicide containing haloxyfop per crop. DO NOT apply after grazing
	Early tillering	100mL/ha	100mL/ha	
Barley grass	2 to 4 leaf	50mL/ha	75mL/ha	#1, #2 See GENERAL INSTRUCTIONS Spraying oils/wetters sections. FIELD PEAS AND CANOLA: The only oil recommended for use with Exert 520 is Supercharge [®] Spray Tank Adjuvant. Exert 520 + Transit [®] + Supercharge [®] Spray Tank Adjuvant are compatible and selective to canola. This tank-mix is also compatible with Atradex [®] , Atragranz [®] or Crop Care Atrazine 600 and selective to triazine tolerant canola. LUPINS AND FIELD PEAS: Mixtures with Brodal* or Simagranz [®] or Crop Care Simazine 600 may cause crop yellowing and separate applications are recommended. CHICKPEAS, FABA BEANS, LENTILS AND VETCH, LINOLA, LINSEED: Broadleaf herbicides should not be added to Exert 520. Apply Exert 520 and broadleaf herbicides at least a week apart. LUCERNE, CLOVER OR MEDIC PASTURES: If grazed or cut for hay immediately prior to treatment delay application until all grasses have fully expanded leaves. Use 75mL + spraying oil or 100mL + wetter/ha. (See GENERAL INSTRUCTIONS, Spraying Oils/wetters section). If silver grass (<i>Vulpia</i> spp.) is present in pasture, Crop Care Simazine 600 should be tank mixed with the higher rate of Exert 520 plus a non-ionic wetter.
Brome grass	2 to 4 leaf	50mL/ha	75mL/ha	
Paradoxa grass	Early tillering	75mL/ha	100mL/ha	
Volunteer cereals	2 to 4 leaf	37.5mL/ha	50mL/ha	
Wild oats (WA, SA, Vic, Tas, Southern and Central NSW)	Early tillering	50mL/ha	75mL/ha	
Wild oats (Northern NSW & Qld)	2 to 4 leaf	50mL/ha	75mL/ha	
	Early tillering	75mL/ha	100mL/ha	

Table 1b. Winter crop growth stage application windows

CROP	CROP GROWTH STAGE
Lucerne, Medic and Clover pastures or seed crops	Apply from 2 nd trifoliolate leaf onwards. For <i>Erodium</i> spp. spraying, apply from cotyledon crop stage onwards.
Canola, Linola, Linseed	Apply from 2 nd leaf to 8 leaf stage of crop growth. DO NOT apply after the commencement of stem elongation. This means that application must not occur after the 8 leaf stage, or if stem elongation commences before the 8 leaf stage, application must not occur after stem elongation has commenced.
Chickpeas, Faba beans, Field peas, Lentils, Lupins, Vetch	Apply from 2 nd leaf, 2 nd node or 2 nd branch to prior to flowering.

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

WEEDS CONTROLLED	WEED GROWTH STAGE	Rate with Supercharge® Spray Tank Adjuvant#1	CRITICAL COMMENTS
Prairie grass (<i>Bromus catharticus</i>)	Up to early tillering	100mL/ha	#1 See GENERAL INSTRUCTIONS, Spraying oils/wetters sections.
Musky or ferny leaf Storksbill: (<i>Erodium moschatum</i>), Common Crowsfoot or Common Storksbill (<i>Erodium cicutarium</i>)	Up to 6 leaf or 5cm diameter	50-75mL/ha #3	#3 Use lower rate when growing conditions and crop or pasture competition are good and when weed populations are below 100 plant/m ² . Use the higher rate when weed populations are above 100 plants/m ² or when crop or pasture competition is poor. NOTE: Storksbill may not be controlled if Simagranz or Crop Care Simazine 600 or Broadstrike* are tank-mixed with Exert 520.
Long or shiny leaf storksbill (<i>E. botrys</i>)	Up to 8 leaf or 5cm diameter	75-100mL/ha	LUCERNE, CLOVER OR MEDIC PASTURES: If grazed or cut for hay immediately prior to treatment delay application until all grasses have fully expanded leaves. Use 75 mL + Supercharge Spray Tank Adjuvant or 100mL + wetter/ha. (See GENERAL INSTRUCTIONS, Spraying Oils/wetters section). If silver grass (<i>Vulpia</i> spp.) is present in pasture, Simagranz or Crop Care Simazine should be tank mixed with the higher rate of Exert 520 plus a non-ionic wetter.

Table 2b. Lucerne, Medic and Clover seed crops only - not to be used for stockfeed. See table 1b for crop stages

WEEDS CONTROLLED	WEED GROWTH STAGE	Rate with Uptake#1 Spraying Oil	CRITICAL COMMENTS
Couch grass (suppression), Rhodes grass (control)	Tillering seedlings	150mL/ha + 150mL/ha #4	#4 For best suppression of couch or control of Rhodes grass, make 2 applications of Exert 520 2-4 weeks apart. Time second application to coincide with tillering stage of weeds and just after irrigation or significant rain. Only treat actively growing weeds which are not moisture stressed. Use these rates for control of couch and Rhodes grass.
Couch grass (control), Rhodes grass (control)	Established stands	400-800mL/ha	

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

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

Table 3b. Summer crop growth stage application windows

CROP	CROP GROWTH STAGE
Lucerne	Apply from 2 nd trifoliolate 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.

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

Table 5. Exert 520 and Sequence® Herbicide tank-mixes - Canola, Chickpeas, Faba beans, Field peas, Lupins, Lentils

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

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, orchard crops, peanuts, plantation crops, soybeans, sunflowers, vetch or vine crops.

DO NOT HARVEST FOR:

MEDIC AND CLOVER SEED CROPS FOR 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, mung beans, navy beans, peanuts, soybeans, sunflowers and vetch:

28 DAYS AFTER APPLICATION

Lucerne:

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 10cm above the level of agitation and ensure the agitation device is working vigorously. (There must be a minimum of 100L of water in the tank before any pesticide is added.)
- If tank mixing, firstly add any soluble liquid formulations (e.g. Transit® Herbicide) and allow agitation for approximately one minute. Then add Exert 520 at the point where agitation is strongest. (**DO NOT add Exert 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™ 750 WG or Le-Mat®), these should be **added after the Exert 520** to the half full spray tank ensuring vigorous agitation.

- Finally add Supercharge Spray Tank Adjuvant or approval 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. Exert 520 and any other tank mixes should be applied immediately for the best results.

SPRAYING OILS/WETTERS

#1 Spraying Oils: It is essential to add an adjuvant to Exert 520. Best results will be achieved with Supercharge Spray Tank Adjuvant at 0.5L/100L of spray solution. Alternatively, other oils plus a non-ionic wetter may also be used. When other crop spraying oils are used, mix at 1/100L and add a non-ionic wetter (surfactant) at 200mL/100L of spray solution. **Use of an oil is not always recommended.** See Critical Comments for specific situation recommendations.

#2 Non-ionic Wetters: When Supercharge Spray Tank Adjuvant or other oils are not used, a 100% concentrate non-ionic wetting agent such as BS1000 at 200mL/100L must be used along with the higher rate of Exert 520 as specified in the Directions For Use.

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

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

When tank mixing Exert 520 with Transit (canola only) or Broadstrike* (Lucerne, clover and medics), use Supercharge Spray Tank Adjuvant with the lower rates of Exert 520 or a wetting agent with the higher rates of Exert 520 unless otherwise specified. When mixing Exert 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 Supercharge Spray Tank Adjuvant. Hasten* is also recommended for use with tank-mixtures of Exert 520 and Sequence Herbicide.

For canola Exert 520 + Transit + Supercharge Spray Tank Adjuvant are compatible and selective to canola. This tank-mixture is also compatible with Atradex, Atragranz or Crop Care Atrazine 600 or Simagranz and Crop Care Simazine 600 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: Exert 520 Herbicide can be tank mixed with:

Insecticides:	Saboteur® (dimethoate) dimethoate omethoate
Herbicides:	Atradex*, Atragranz* Crop Care Atrazine 600 Basagran* Blazer* Broadstrike* Herbicide Transit® Polo® - DO NOT exceed 700mL/ha of Polo Oryzalin Sequence® Herbicide Simagranz® and Crop Care Simazine 600 Decoy® 400 Herbicide
Fungicides:	Penncozeb® 750 DF Dithane™ Rainshield
Trace elements:	magnesium sulphate zinc sulphate

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

Aerial use: No product other than a recommended crop oil or wetter should be mixed with Exert 520 Herbicide when applied by air except for addition of Transit for use in forestry and canola only.

APPLICATION

Apply Exert 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	50-150L/ha
Aerial application	30L/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 Exert 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 Exert 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 alkaline detergent such as Nufarm Spraymate Tank and Equipment Cleaner according to the label directions 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

GROUP	A	HERBICIDE
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Exert 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 Exert 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. Since the occurrence of resistant weeds is difficult to detect prior to use, Crop Care Australasia Pty Ltd 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 Crop Care representative.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Exert 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 Exert 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

Exert 520 Herbicide is a 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 500mm in a disposal pit specifically marked and set up for the 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 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 which can be obtained from your supplier or from the Crop Care website – www.cropcare.com.au

Conditions of sale

Crop Care Australasia Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Crop Care Australasia Pty Ltd is limited to the replacement of the goods or (at the option of Crop Care Australasia Pty Ltd) the refund of the price paid and where possible sufficient part of the goods to enable proper examination being returned to Crop Care Australasia Pty Ltd within thirty days of delivery.

In a Transport Emergency Dial	SPECIALIST ADVICE IN EMERGENCY ONLY
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000 Police or Fire Brigade	1800 033 498 ALL HOURS - AUSTRALIA WIDE
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