

Product Name: NUFARM EXERT HERBICIDE  
APVMA Approval No: 61678/139469



Label Name:	Nufarm Exert Herbicide
Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	ACTIVE CONSTITUENT: 520 g/L HALOXYFOP present as the Haloxyfop-R methyl ester
Mode of Action:	GROUP 1 HERBICIDE
Statement of Claims:	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.
Net Contents:	250mL - 20L
Restrains:	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.
Directions for Use:	This section contains file attachment.
Other Limitations:	

Withholding Periods:	<p><b>WITHHOLDING PERIODS</b></p> <p><b>HARVEST</b>  Canola, chickpeas, cotton, cowpea, faba beans, field peas, lentils, linola, linseed, lupins, mung beans, navy beans, orchard crops, peanuts, plantation crops, soybeans, sunflowers, vetch and vine crops: NOT REQUIRED WHEN USED AS DIRECTED.  Medic and Clover seed crops: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.</p> <p><b>GRAZING</b>  Canola, chickpeas, cotton, cowpea, faba beans, field peas, lentils, linola, linseed, lupins, mung beans, navy beans, peanuts, soybeans, sunflowers and vetch: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 28 DAYS AFTER APPLICATION.  Lucerne: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 21 DAYS AFTER APPLICATION.  Medic and clover pasture: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.  COTTON GIN TRASH MUST NOT BE FED TO ANIMALS.</p>
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Trade Advice:	
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General Instructions:	<p><b>GENERAL INSTRUCTIONS</b></p> <p><b>Mixing</b></p> <ul style="list-style-type: none"> <li>• 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.)</li> <li>• If tank mixing, firstly add any soluble liquid formulations and allow agitation for approximately one minute. Then add Nufarm Exert® at the point where agitation is strongest. (DO NOT add Nufarm Exert® through a strainer or sieve). Allow further agitation for one minute.</li> <li>• Half fill the spray tank.</li> <li>• 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 Nufarm Exert® to the half full spray tank ensuring vigorous agitation.</li> <li>• 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.</li> <li>• Only mix sufficient solution for immediate use. Nufarm Exert® and any other tank mixes should be applied immediately for the best results.</li> </ul> <p><b>Spraying Oils/Wetters</b></p> <p><b>#1 Spraying Oils:</b> It is essential to add an adjuvant to Nufarm Exert®. 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 1L/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.</p> <p><b>#2 Non-ionic Wetters:</b> 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 Nufarm Exert® as specified in the Directions For Use. 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.</p> <p><b>Canola, Lucerne, Medic and Clover Pasture and Seed Crops</b>  When tank mixing Nufarm Exert® with Broadstrike* (Lucerne, clover and medics), use Supercharge Spray Tank Adjuvant with the lower rates of Nufarm Exert® or a wetting agent with the higher rates of Nufarm Exert® unless otherwise specified. When mixing Nufarm Exert® with other broadleaf herbicides on these crops, DO NOT use an oil use a wetter instead.</p> <p><b>Field Peas and Canola</b></p>
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The oil recommended is Supercharge Spray Tank Adjuvant. Hasten\* is also recommended for use with tank-mixtures of Nufarm Exert® and Sequence® Herbicide. For canola Nufarm Exert® + Supercharge Spray Tank Adjuvant are compatible and selective to canola. This tank-mixture is also compatible with atrazine products or simazine products 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.

#### Incompatibility

Nufarm Exert 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 Nufarm Exert Herbicide when applied by air.

#### Application

Apply Nufarm Exert® 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 Nufarm Exert®, 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 Nufarm Exert®, 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.

#### Resistance Warning:

#### RESISTANT WEEDS WARNING GROUP 1 HERBICIDE

Nufarm Exert® 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 Nufarm Exert® is a Group 1 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, Nufarm Australia 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 Nufarm representative.

Precautions:	
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Protections:	<p><b>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</b>  Nufarm Exert® 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 Nufarm Exert®, particularly on light and red soils.</p> <p><b>PROTECTION OF LIVESTOCK</b>  DO NOT graze or cut treated crops for stock food except as specified under withholding periods.</p> <p><b>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</b>  Nufarm Exert® is toxic to fish. DO NOT contaminate streams, rivers or watercourses with the chemical or used container.</p>
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Storage and Disposal:	<p><b>STORAGE AND DISPOSAL</b>  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 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> <p><b>SMALL SPILL MANAGEMENT</b>  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.</p>
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Safety Directions:	<p><b>SAFETY DIRECTIONS</b>  Harmful if swallowed. Will damage eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length pvc gloves and face shield or goggles. Wash hands after use. After each day's use, wash gloves and face shield or goggles and contaminated clothing".</p>
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First Aid Instructions:	<p><b>FIRST AID</b>  If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766. 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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## Nufarm Exert® Herbicide – Directions for Use

### DIRECTIONS FOR USE

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 <sup>#1</sup>	RATE with BS1000 <sup>#2</sup>	CRITICAL COMMENTS
Annual ryegrass	2 to 4 leaf Early tillering	75 mL/ha 100 mL/ha	100 mL/ha 100 mL/ha	<b>CANOLA, LINOLA and LINSEED:</b> 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 <sup>#1, #2</sup> See GENERAL INSTRUCTIONS - Spraying oils/wetters sections.
Barley grass Brome grass Paradoxa grass Volunteer cereals	2 to 4 leaf Early tillering	50 mL/ha 75 mL/ha	75 mL/ha 100 mL/ha	
Wild oats (WA, SA, Vic, Tas, Southern and Central NSW)	2 to 4 leaf Early tillering	37.5 mL/ha 50 mL/ha	50 mL/ha 75 mL/ha	<b>FIELD PEAS AND CANOLA:</b> The only oil recommended for use with Nufarm Exert® is Supercharge® Spray Tank Adjuvant. Nufarm Exert® + 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. <b>LUPINS AND FIELD PEAS:</b> Mixtures with Brodal* Simagranz may cause crop yellowing and separate applications are recommended. <b>CHICKPEAS, FABA BEANS, LENTILS AND VETCH, LINOLA, LINSEED:</b> Broadleaf herbicides should not be added to Nufarm Exert®. Apply Nufarm Exert® and broadleaf herbicides at least a week apart. <b>LUCERNE, CLOVER OR MEDIC PASTURES:</b> If grazed or cut for hay immediately 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 ( <i>Vulpia</i> spp.) is present in pasture, Crop Care Simazine should be tank mixed with the higher rate of Nufarm Exert® plus a non-ionic wetter.
Wild oats (Northern NSW & Qld)	2 to 4 leaf Early tillering	50 mL/ha 75 mL/ha	75 mL/ha 100 mL/ha	

Table 1b. Winter crop growth stage application windows

CROP	CROP GROWTH STAGE
Lucerne, Medic and Clover pastures or seed crops	Apply from 2 <sup>nd</sup> trifoliolate leaf onwards. For <i>Erodium</i> spp. spraying, apply from cotyledon crop stage onwards.
Canola, Linola, Linseed	Apply from 2 <sup>nd</sup> leaf to 8 leaf stage of crop growth. <b>DO NOT</b> 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 <sup>nd</sup> leaf, 2 <sup>nd</sup> node or 2 <sup>nd</sup> 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 <sup>#1</sup>	CRITICAL COMMENTS
Prairie grass ( <i>Bromus catharticus</i> )	Up to early tillering	100 mL/ha	<sup>#1</sup> See GENERAL INSTRUCTIONS - Spraying oils/wetters sections. <sup>#3</sup> Use lower rate when growing conditions and crop or pasture competition are good and when weed populations are below 100 plant/m <sup>2</sup> . Use the higher rate when weed populations are above 100 plants/m <sup>2</sup> or when crop or pasture competition is poor. <b>NOTE:</b> Storksbill may not be controlled if Simagranz or Crop Care Simazine or Broadstrike* are tank-mixed with Nufarm Exert®. <b>LUCERNE, CLOVER OR MEDIC PASTURES:</b> 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 100 mL + 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 Nufarm Exert® plus a non-ionic wetter.
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 – 75 mL/ha <sup>#3</sup>	
Long or shiny leaf storksbill ( <i>E. botrys</i> )	Up to 8 leaf or 5cm diameter	75 - 100 mL/ha	

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 <sup>#1</sup> Spraying Oil	CRITICAL COMMENTS
Couch grass (suppression) Rhodes grass (control)	Tillering seedlings	150 mL/ha + 150 mL/ha <sup>#4</sup>	<sup>#4</sup> For best suppression of couch or control of Rhodes grass, make 2 applications of Nufarm Exert® 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 – 800 mL/ha	

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

WEEDS CONTROLLED	WEED GROWTH STAGE	RATE with Supercharge® Spray Tank Adjuvant#1	CRITICAL COMMENTS
Australian millet	2 leaf to tillering up to 15 cm	150 mL/ha	<p>#1 See GENERAL INSTRUCTIONS - Spraying oils/wetters sections.</p> <p><b>NAVY BEANS, PEANUTS, SOYBEANS:</b> For broadleaf weed control, Nufarm Exert® at 150 mL/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.</p> <p><b>DO NOT</b> tank mix broadleaf herbicides with Nufarm Exert® if grasses have begun tillering or if the grasses are under moisture stress.</p> <p><b>DO NOT</b> add Supercharge Spray Tank Adjuvant when mixing with Blazer* or Basagran*.</p> <p><b>DO NOT</b> use Blazer or Basagran* tank-mixes on cowpea.</p>
Barnyard grass	2 to 5 leaf tillering up to 15 cm	100 mL/ha 150 mL/ha	
Crowsfoot grass Green panic Johnson grass (rhizome)	2 leaf to tillering up to 15 cm	150 mL/ha	
Johnson grass (seedling) Liverseed grass (seedling) Mossman river grass	2 to 5 leaf tillering up to 15 cm	100 mL/ha 150 mL/ha	
Summer grass	2 leaf to tillering up to 15 cm	150 mL/ha	
Volunteer cereals	2 to 4 leaf tillering up to 15 cm	100 mL/ha 150 mL/ha	

**Table 3b. Summer crop growth stage application windows**

CROP	CROP GROWTH STAGE
Lucerne	Apply from 2 <sup>nd</sup> trifoliate leaf onwards.
Cowpea, Mung beans, Navy beans, Soybeans	Apply from 2 <sup>nd</sup> leaf to flowering.
Peanuts	Apply from 2 <sup>nd</sup> leaf to pegging.
Cotton	Apply from 2 <sup>nd</sup> leaf to before the onset of flowering.
Sunflowers	Apply from 2 <sup>nd</sup> 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 – 800 mL/ha	<p>#1 See GENERAL INSTRUCTIONS - Spraying oils/wetters sections.</p> <p>Spray should be directed to the base of the tree or vine avoiding contact with fruit and foliage.</p> <p><b>Spot spray:</b> Use 25 – 50 mL/100L of water.</p> <p>Use higher rate on late tillering mature grasses.</p> <p><b>Annual Grasses:</b> Where treated in association with perennial grasses, these annual grasses will be controlled.</p> <p><b>Forestry:</b> For annual grasses apply lowest rate to newly emerged grasses, increasing the rate as they develop.</p> <p><b>Pyrethrum Tasmania only:</b> For <i>Erodium</i> spp. apply 75 – 100 mL/ha if the main weed is <i>E. botrys</i>. Use 50 – 75 mL/ha if either <i>E. cicutarium</i> or <i>E. moschatum</i> are the main weeds.</p>
		Buffel grass, Green panic, Johnson grass, Kikuyu, <i>Paspalum</i> spp <i>Setaria</i> spp	Vegetative to early tillering Late tillering	200 mL/ha 400 mL/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	200 mL/ha	
		Annual grasses as above	Vegetative to tillering	125 – 250 mL/ha 100 - 250 mL/ha	
Forestry: <i>Pinus radiata</i> , <i>Eucalyptus</i> spp.					
Forestry: <i>Pinus pinaster</i>					
Pyrethrum		Barley grass, Brome grass, Rope twitch, Barnyard grass, <i>Erodium</i> spp., Volunteer cereals			

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

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

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