

READ SAFETY INSTRUCTIONS BEFORE OPENING OR USING

# FLUMETSULAM

800 HERBICIDE

**ACTIVE CONSTITUENT:**  
800 g/kg FLUMETSULAM

**GROUP B HERBICIDE**

A water dispersible granule formulation for the post-emergence and salvage control of certain broadleaf weeds in winter cereals (including those undersown with clover, lucerne or medics); clover, fenugreek, lathyrus, lucerne, medic, serradella, and vetch (Popany only) seed crops and pastures; chickpeas, field peas, lentils, maize, peanuts; and for the pre-emergence control of certain broadleaf weeds in maize, pigeon peas and soybeans as specified in the Directions For Use.

**IMPORTANT: READ THIS LEAFLET BEFORE USE**

**RELYON**

APVMA Approval No.  
89858/126244

**DIRECTIONS FOR USE****RESTRAINTS:**

**DO NOT** apply to plants which may be stressed (not actively growing) due to prolonged periods of extreme temperature (less than 5°C or greater than 30°C), moisture stress (water-logged or drought affected), poor nutrition or previous herbicide treatment as reduced levels of control may result.

**DO NOT** apply to plants which have suffered frosting for extended periods. Allow at least 2 days frost free prior to treatment.

**DO NOT** apply post-emergence treatments if rain is likely within 4 hours.

**DO NOT** irrigate (any method) treated crop or pasture for 48 hours after application.

**DO NOT** apply to crops affected by disease or by previous herbicide treatment (eg triazines or sulfonylureas).

**TABLE 1A CHICKPEAS, FIELD PEAS, LENTILS, FENUGREEK, LATHYRUS, VETCH (POPANY only), and SERRADELLA**

CROP	GROWTH STAGES	CROP TOLERANCE
Chickpeas	4 - 6 branches (no later than 6 weeks after emergence)	Relyon Flumetsulam 800 Herbicide usually causes some transient crop yellowing and can cause reddish discolouration and height suppression. Flowering may be delayed resulting in yield suppression.
Field Peas	2 to 6 nodes (no later than 6 weeks after emergence)	Relyon Flumetsulam 800 may cause transient crop yellowing and height suppression. On light soils in dry seasons flowering may be delayed resulting in yield suppression.
Lentils	4-8 fully expanded leaves <b>DO NOT</b> apply later than 6 weeks after crop emergence	Relyon Flumetsulam 800 may cause transient height reduction, crop discolouration and delayed flowering, although yields are normally unaffected. However, stress conditions after application (eg. frost, drought, nutrient deficiency, disease) may lengthen the time needed for lentils to recover. In seasons where a dry spring occurs, yields may be suppressed. Tank mixes with other products may result in growth suppression and delayed flowering which can result in yield suppression.
Fenugreek Lathyrus Vetch (Popany only)	3 fully expanded leaves onwards	
Serradella	3 fully expanded leaves onwards	

**SPRAY ADDITIVES/TANK MIXES**

**DO NOT** use any spray additives, or tank mix any other chemicals with Relyon Flumetsulam 800 Herbicide when using on chickpeas or field peas.

Uptake(TM)Spraying Oil at 500 mL/100 L or BS-1000 at 200 mL/100 L may be applied with Relyon Flumetsulam 800 to lentils.

Use Relyon Flumetsulam 800 or Relyon Flumetsulam 800 plus a wetter only. Tank mixtures with other herbicides are not recommended.

Uptake Spraying Oil at 500 mL/100 L or BS-1000 at 200 mL/100 L may be applied with Relyon Flumetsulam 800 to serradella.

**TABLE 1B WEEDS CONTROLLED OR SUPPRESSED IN TABLE 1A CROPS**

WEED	WEED GROWTH STAGE		RATE g/ha
	Up To Leaf No. or	Up To Plant size (cm)	
<b>CONTROLLED</b>			
Amsinckia (Yellow burrweed)	10 leaf	10 cm diameter	25
Ball mustard	6 leaf	5 cm diameter	
Charlock	8 leaf	10 cm diameter	
Indian hedge mustard	6 leaf	5 cm diameter	
Lupins	10 leaf	10 cm high	
Marshmallow (Small flowered mallow)	4 leaf	10 cm diameter	
Pheasant's eye	8 leaf	10 cm diameter	
Shepherd's purse	8 leaf	10 cm diameter	
Three-horned bedstraw	6 whorls	10 cm high	
Turnip weed	8 leaf	5 cm diameter	
Volunteer canola	8 leaf	10 cm diameter	
Ward's weed	8 leaf	10 cm diameter	
Wild turnip	6 leaf	5 cm diameter	
<b>SUPPRESSED</b>			
Capeweed (WA only)	4 leaf	10 cm diameter	25
Doublegee (Spiny emex) (WA only)	4 leaf	10 cm diameter	
Wild radish	4 leaf	5 cm diameter	

CRITICAL COMMENTS
Where recommended, use of either a wetter or Uptake Spraying Oil with Relyon Flumetsulam 800 will provide better weed control.
Spray charlock as soon as possible after the autumn break. Larger plants and any affected by stress or grazing prior to treatment may re-grow and flower.
Under ideal growing conditions, Relyon Flumetsulam 800 will provide useful suppression of capeweed and doublegee. Best results will be achieved when a pre-emergence herbicide has already been used.
Under ideal growing conditions, Relyon Flumetsulam 800 without an adjuvant will give a biomass reduction of 50% - 70% of wild radish. Surviving plants may flower and set viable seed. Best results will occur with treatment in conditions of >5°C with bright sunny conditions and use of higher water rates of 75-100 L/ha with fine-medium quality spray droplets to get excellent spray coverage.

**TABLE 2A WHEAT, BARLEY, OATS, TRITICALE, CEREAL RYE (INCLUDING THOSE UNDERSOWN WITH CLOVER, LUCERNE OR MEDICS), CLOVER, LUCERNE AND MEDIC CROPS AND MIXED GRASSES/LEGUME PASTURES**

CROP/SITUATION	GROWTH STAGES	CROP TOLERANCE
Wheat	3 leaf until start of jointing (Zadoks 13-31)	
Barley Oats	Mid-tillering to start of jointing (Zadoks 23-31)	Transient stem shortening and crop discolouration may occur, although yields are normally unaffected. Where barley and oats are undersown, a vigorous legume component may lengthen the time needed for the cereal to recover, especially if the cereal is stressed by lack of moisture, trace element deficiency or disease. In severe cases, yields may be suppressed.
Stirling barley (WA only)	Apply no earlier than Zadoks 31.	
Triticale Cereal rye	Mid-tillering to start of jointing (Zadoks 23-31)	
Medic, lucerne, and clover seed crops, and pastures, including; Barrel medic Snail medic Spineless burr medic Subterranean clover White clover	2 to 3 trifoliolate leaves onwards	<b>Medic, lucerne and subterranean clover -</b> When Relyon Flumetsulam 800 is applied at 25 g/ha + Uptake or wetter, yield reduction may occur when treating Serena or Paraggio medic or Nungarin sub-clover.  <b>DO NOT</b> apply to lucerne seed crops less than 8 weeks before flowering.
Grazing lucerne – high rate	4 trifoliolate leaves onwards	Use the 50 g/ha rate in grazing lucerne only. DO NOT apply at 50 g/ha to lucerne used for seed production.
Fence lines, Stock camps, Stockyards, Commercial areas and pastures including medic, lucerne and clover pastures.	2 to 3 trifoliolate leaves onwards (see crop tolerance)	

SPRAY ADDITIVES/TANK MIXES
Always apply with Uptake Spraying Oil at 500 mL/100 L or a 100% concentrate non-ionic wetting agent such as BS-1000 at 200 mL/100 L.
Use only with a wetting agent such as BS-1000 when either applying Relyon Flumetsulam 800 alone or with partner products in barley and oats.
Always apply with Uptake Spraying Oil at 500 mL/100 L or a 100% concentrate non-ionic wetting agent such as BS-1000 at 200 mL/100 L.
Always apply with Uptake Spraying Oil at 500 mL/100 L or a 100% concentrate non-ionic wetting agent such as BS-1000 at 200 mL/100 L. <b>In lucerne DO NOT use with MCPA.</b> <b>In medics DO NOT use with MCPA.</b>
Use Uptake Spraying Oil at 500 mL/100 L.

CROP/SITUATION	GROWTH STAGES	CROP TOLERANCE
<b>SALVAGE SPRAY</b>		
Cereals: Wheat Barley Oats Triticale Cereal rye	Flowering (anthesis) to early dough (Zadoks, 61-83)	Do not use more than 25 g/ha
Pastures Lucerne Clover Medics	Advanced seedlings or re-growth after cutting or grazing.	

SPRAY ADDITIVES/TANK MIXES

**TABLE 2B WEEDS CONTROLLED IN TABLE 2A CROPS**

WEED	WEED GROWTH STAGE		RATE g/ha
	Up To Leaf No. or	Up To Plant size (cm)	
Amsinckia (Yellow burweed)	10 leaf	10 cm diameter	25 + Uptake or wetter
Ball mustard	6 leaf	5 cm diameter	
Buchan weed	8 leaf	10 cm diameter	<b>Lucerne and/or clover only</b> 25 + wetter + 2,4-DB (500 g/L) 1.5-2.5 L/ha
			<b>Grazing lucerne only</b> 50 + Uptake or wetter
Calepina (White ball mustard)	8 leaf	10 cm diameter	25 + Uptake or wetter
Capeweed	4 leaf	10 cm diameter	25 + Uptake or wetter + 700 mL/ha bromoxynil (200 g/L) <b>or</b> 25 + wetter + diuron (500 g/L) 100 mL/ha
Charlock	8 leaf	10 cm diameter	25 + Uptake or wetter
Cotula (WA only)	4 leaf	10 cm diameter	25 + Uptake or wetter

CRITICAL COMMENTS
Use the 50 g/ha rate in grazing lucerne only and apply from 4 trifoliolate leaves onwards. DO NOT apply at 50 g/ha to lucerne used for seed production.
Optimum results are obtained in a competitive pasture. For best results follow up with moderate grazing two weeks after application. In pasture, spray as soon as possible after the autumn break. Larger plants and any affected by stress or grazing prior to treatment may re-grow and flower.
Spray as soon as possible after the autumn break. Larger plants and any affected by stress or grazing prior to treatment may re-grow and flower.
Use Uptake Spraying Oil at 500 mL/100 L or wetting agent such as BS-1000 at 200 mL/100 L.

WEED	WEED GROWTH STAGE		RATE g/ha
	Up To Leaf No. or	Up To Plant size (cm)	
Doublegee (Spiny emex)	6 leaf	15 cm diameter	25 + Uptake or wetter + 700 mL/ha bromoxynil bromoxynil (200 g/L) <b>or</b> 25 + wetter + 2,4-DB (500 g/L) 1.5 - 2.5 L/ha
Dwarf marigold (Poverty weed)	10 leaf	15 cm high	15 + Uptake or wetter
Fat hen	15 leaf	20 cm high	<b>Spring/summer pasture and lucerne only.</b> 25 + Uptake or wetter
			<b>Grazing lucerne only</b> 50 + Uptake or wetter
Fumitory	6 leaf	8 cm diameter	25 + 300 mL/ha terbutryn (500 g/L) + wetter
Hedge mustard Indian hedge mustard	8 leaf	10 cm diameter	25 + Uptake
Lupins	10 leaf	10 cm high	25 + Uptake or wetter
WA blue and narrow leaf lupins (WA only)	4 to 8 leaf		10 + Uptake or wetter
Marshmallow (Small flowered mallow) seedlings	4 leaf	10 cm diameter	25 + Uptake or wetter <b>or</b> 15 + wetter + 700 mL/ha bromoxynil-MCPA (200 g/L + 200 g/L), <b>or</b> 15 + wetter + 350 mL/ha terbutryn (500 g/L) + 700 mL/ha MCPA amine (500 g/L)
			10 leaf

CRITICAL COMMENTS
Optimum results are obtained in a competitive pasture. For best results follow up with moderate grazing two weeks after application. In pasture, spray as soon as possible after the autumn break. Larger plants and any affected by stress or grazing prior to treatment may re-grow and flower. Relyon Flumetsulam 800 + bromoxynil tank mix – use Uptake Spraying oil or a wetter.
Spring and summer pasture and lucerne application only.
Use the 50 g/ha rate in grazing lucerne only and apply from 4 trifoliolate leaves onwards. DO NOT apply at 50 g/ha to lucerne used for seed production.
Relyon Flumetsulam 800 + terbutryn tank mixes – only use a wetter. Note: This mixture is only approved for use in NSW, Vic and Tasmania on pastures.
Relyon Flumetsulam 800 + MCPA/terbutryn or Relyon Flumetsulam 800 + bromoxynil-MCPA tank mixes – only use a wetter. Only use bromoxynil/MCPA and terbutryn + MCPA mixes in cereals that are NOT undersown with clovers, medics or lucerne.
For older plants see Weeds Suppressed. Relyon Flumetsulam 800 + 2,4-DB tank mixes – only use a wetter.
Use the 50 g/ha rate in grazing lucerne only and apply from 4 trifoliolate leaves onwards. DO NOT apply at 50 g/ha to lucerne used for seed production.

WEED	WEED GROWTH STAGE		RATE g/ha
	Up To Leaf No. or	Up To Plant size (cm)	
Paterson's curse (Salvation Jane)	8 leaf	10 cm diameter	25 + Uptake or wetter + 700 mL/ha bromoxynil bromoxynil (200 g/L) <b>or</b> 25 + wetter + terbutryn (500 g/L) 300 mL/ha
Peppergrass seedlings	8 leaf	10 cm diameter	25 + Uptake or wetter
	10 leaf	15 cm diameter	25 + wetter + 2,4-DB (500 g/L) 1.5 - 2.5 L/ha
Pheasant's eye	7 leaf	10 cm high	25 + Uptake or wetter
Shepherd's purse	8 leaf	10 cm diameter	
Three-horned bedstraw	6 whorls	10 cm high	
Turnip weed	8 leaf	5 cm diameter	15 + Uptake or wetter
	12 leaf	10 cm diameter	25 + Uptake or wetter
Volunteer canola	8 leaf	10 cm diameter	
Ward's weed			
Wild radish	6 leaf	15 cm diameter	25 + Uptake or wetter + 700 mL/ha bromoxynil bromoxynil (200 g/L) <b>or</b> 25 + wetter + MCPA amine (500 g/L) 500 mL/ha
Wild radish (cereals)	6 leaf	15 cm diameter	15 + wetter + 700 mL/ha bromoxynil/MCPA (200 g/L + 200 g/L) <b>or</b> 15 + Uptake or wetter + 700 mL/ha MCPA amine (500 g/L) <b>or</b> 15 + wetter + 700 mL/ha MCPA amine (500 g/L) + 350 mL/ha terbutryn (500 g/L)

CRITICAL COMMENTS
In pasture, larger plants and any affected by stress or grazing prior to treatment may regrow and flower. For best results follow up with moderate grazing two weeks after application. With terbutryn, apply in a minimum spray volume of 100 L/ha from the ground or 50 L/ha from aircraft.
When conditions at spraying are less than ideal (see RESTRAINTS above), or when the crop is not competitive, some radish plants may survive to flower and set viable seed. <b>DO NOT use MCPA amine in cereals undersown with clover, medics or lucerne.</b> <b>In lucerne DO NOT use MCPA.</b>
<b>In medics DO NOT use MCPA</b> Relyon Flumetsulam 800 + MCPA amine tank mixes – use Uptake Spraying Oil or a wetter. Relyon Flumetsulam 800 + MCPA/terbutryn or Relyon Flumetsulam 800 + bromoxynil/MCPA tank mixes – only use a wetter. <b>DO NOT use MCPA amine or MCPA amine + terbutryn in cereals undersown with clover, medics or lucerne.</b>

WEED	WEED GROWTH STAGE		RATE g/ha
	Up To Leaf No. or	Up To Plant size (cm)	
Wild turnip	10 leaf	10 cm diameter	25 + Uptake or wetter
Wireweed	10 leaf	15 cm diameter	<b>Pasture and lucerne only</b> 25 + wetter + 2,4-DB (500 g/L) 1.5-2.5 L/ha

**TABLE 2C WEEDS SUPPRESSED IN TABLE 2A CROPS**

WEED	WEED GROWTH STAGE		RATE g/ha
	Up To Leaf No. or	Up To Plant size (cm)	
Buchan weed	8 leaf	10 cm diameter	25 + Uptake or wetter
Deadnettle	6 leaf	5 cm diameter	25 + wetter + 2,4-DB (500 g/L) 1.5 - 2.5 L/ha
Doublegee (Spiny emex)	4 leaf	10 cm diameter	25 + Uptake or wetter
	6 leaf	15 cm diameter	<b>Grazing lucerne only</b> 50 + Uptake or wetter
Marshmallow (Small flowered mallow)	5-8 leaf	10 cm diameter	25 + Uptake or wetter
New Zealand spinach	4 leaf	5 cm diameter	
Paterson's curse (Salvation Jane)	8 leaf	10 cm diameter	
Peppercress	10 leaf	15 cm diameter	
Stagger weed	6 leaf	5 cm diameter	25 + wetter + 2,4-DB (500 g/L) 1.5 - 2.5 L/ha
Wild radish	4 leaf	5 cm diameter	25 + Uptake or wetter

CRITICAL COMMENTS
Undersown clovers and lucerne, spring and summer sown pasture and lucerne crops only.

CRITICAL COMMENTS
Relyon Flumetsulam 800 + 2,4-DB tank mixes – only use a wetter.
Use the 50 g/ha rate in grazing lucerne only and apply from 4 trifoliolate leaves onwards. <b>DO NOT</b> apply at 50 g/ha to lucerne intended for seed production.
Relyon Flumetsulam 800 + 2,4-DB tank mixes – only use a wetter.



**TABLE 3 SALVAGE SPRAY IN WHEAT, BARLEY, OATS, TRITICALE, CEREAL RYE, MIXED GRASS/ LEGUME PASTURES, LUCERNE, CLOVER AND MEDICS**

WEED	WEED GROWTH STAGE	RATE g/ha
Wild radish Turnip weed Paterson's curse	Early flowering of the youngest weeds to early pod formation of the oldest weeds	25 or 50 + Uptake or wetter <b>Use 50 g/ha only in established grazing lucerne clover, medic and legume/grass pastures</b>

**TABLE 4 AGRICULTURAL NON-CROP AREAS**

WEED	WEED GROWTH STAGE	RATE
Caltrop Capeweed Marshmallow (Small flowered mallow) (suppression) Paterson's curse (Salvation Jane)- Wild radish	Rosette stage prior to running up to flower	<b>Spot spray:</b> 25 g/100 L

**TABLE 5A SEED CROPS (TASMANIA ONLY): SUBTERRANEAN CLOVER, RED CLOVER, WHITE CLOVER, ARROWLEAF CLOVER AND LUCERNE**

Crop	Growth Stages	Crop Tolerance
Seed crops of Subterranean clover Red clover White clover Arrowleaf clover Lucerne	1 to 3 trifoliolate leaves onwards	<b>DO NOT apply to lucerne or clover seed crops less than 8 weeks before flowering. DO NOT apply at 40 g/ha to lucerne intended for seed production.</b>

**CRITICAL COMMENTS**

Use Uptake Spraying Oil at 500 mL/100 L or wetting agent such as BS-1000 at 200 mL/100 L. For prevention of wild radish and turnip weed seed set, **apply in a minimum spray volume of 100 L/ha from the ground or 50 L/ha from aircraft.**

Some re-growth may occur when wet conditions prevail after treatment. Do not use this technique if you have already applied a Group B herbicide to the crop or pasture this season. Only use this salvage spray technique with Relyon Flumetsulam 800 once per cropping cycle to minimise the development of herbicide resistance. If you suspect herbicide resistance in broadleaved weeds do not use this technique.

**DO NOT** use a Relyon Flumetsulam 800 salvage spray in pastures for seed production.

**WARNING: Weeds that have not started to flower at application time may not be controlled by the salvage spray technique. For wild radish, time treatment to coincide with green, soft pods prior to embryo maturation in seeds.** Squeeze pod between finger nails to see if any "green/white seeds" are present. Best time to treat is before seeds are visible.

**Use 50 g/ha only in established grazing lucerne clover, medic and legume/grass pastures.**

**CRITICAL COMMENTS**

Apply to actively growing rosettes. To ensure complete coverage, spray to the point of runoff. Use Uptake Spraying Oil at 500 mL/100L.

**Spray Additives/Tank Mixes**

Use Uptake Spraying Oil at 500 mL/100 L or a wetting agent such as BS-1000 at 200 mL/100 L. In **clover and lucerne** Relyon Flumetsulam 800 may be tank-mixed with 2,4-DB and/or bromoxynil at their respective label rates for complete control of suppressed weeds.

**TABLE 5B WEEDS CONTROLLED OR SUPPRESSED IN TABLE 5A CROPS**

WEED	WEED GROWTH STAGE	RATE g/ha
<b>WEEDS CONTROLLED</b>		
Charlock	Up to 3½ leaf stage	25 + Uptake or wetter
Fat hen Lesser swinecress Mustards Shepherd's purse Wild radish Wild turnip	Beyond 3½ leaf stage and up to 10 leaf stage	40 + Uptake or wetter
<b>WEEDS SUPPRESSED</b>		
Capeweed Chickweed Fumitory Spurrey Wireweed	Beyond 3½ leaf stage and up to 10 leaf stage	40 + Uptake or wetter

**TABLE 6A SOYBEANS, LUCERNE, MAIZE, PEANUTS AND PIGEON PEAS**

Crop	Growth Stages	Application methods
Maize	Post-plant pre-emergence (PPPE)	Apply Relyon Flumetsulam 800 after planting and before emergence of crop and weeds. Apply to moist soil only.
	Post-emergent Up to 8 leaf stage	
Soybean	Pre-plant Incorporated (PPI)	Incorporate into the soil within 4 hours by making two passes in opposite directions using a combine with trailing harrows or similar equipment, to ensure thorough incorporation.
	Incorporated By Sowing (IBS)	Ensure the planting operation is done within 4 hours of application, using a combine with trailing harrows or similar equipment, to ensure thorough incorporation.
	Post-plant Pre-emergent (PPPE)	Apply Relyon Flumetsulam 800 after planting and before emergence of crop and weeds. Apply to moist soil only.

CRITICAL COMMENTS
Use Uptake Spraying oil at 500 mL/100 L or wetting agent such as BS-1000 at 200 mL/100 L.
In <b>clover and lucerne</b> , seedlings of these weeds will be <b>suppressed</b> with Relyon Flumetsulam 800 alone.
In <b>clover and lucerne</b> , Relyon Flumetsulam 800 may be tank-mixed with 2,4-DB and/or bromoxynil at their respective label rates for complete control of suppressed weeds. Only use a wetting agent at 200 mL/100 L with these tankmixes.

Spray Additives/Tank Mixes	Crop Tolerance
May be tank mixed with pendimethalin.	
Apply with Uptake Spraying Oil at 500 mL/100 L spray volume or with a 100% concentrate non-ionic wetter such as BS-1000 at 200 mL/100 L. May be tank mixed with Trifluralin 480 or pendimethalin.	Some transitory crop yellowing and height suppression should be expected bHut yields will be unaffected.
May be tank mixed with Trifluralin 480 or pendimethalin.	
May be tank mixed with pendimethalin.	

Crop	Growth Stages	Application methods
Lucerne	Post-emergent Up to 6 trifoliolate leaf stage	
Peanuts	Post-emergent Up to 6 leaf stage	
Pigeon pea (GM Cotton refugia)	Post-plant pre-emergence (PPPE)	Apply Relyon Flumetsulam 800 after planting and before emergence of crop and weeds. Apply to moist soil only. Results will be improved by light irrigation or rain to incorporate.

**TABLE 6B WEEDS CONTROLLED OR SUPPRESSED IN TABLE 6A CROPS**

WEED	WEED GROWTH STAGE	RATE g/ha
<b>WEEDS CONTROLLED</b>		
Annual ragweed Boggabri Weed Fat Hen Wild Radish (IBS or PPPE only)	Pre-emergent	25 or 50
Caltrop Fat hen Turnip weed Wild Radish	Post-emergent Up to 4 leaf	25 or 50 + Uptake or wetter
Volunteer cotton (including Roundup Ready® Cotton)	Pre-emergence	50
<b>WEEDS SUPPRESSED</b>		
Black pigweed Bladder ketmia Caltrop Cobbler's-pegs	Pre-emergent	25 or 50
Annual ground cherry Anoda weed Bladder ketmia Boggabri weed Fierce thornapple (Qld only) Red pigweed Wild gooseberry	Post-emergent Up to 4 leaf	25 or 50 + Uptake or wetter

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

Spray Additives/Tank Mixes	Crop Tolerance
<b>DO NOT</b> apply at 50 g/ha to lucerne intended for seed production. Apply with Uptake Spraying Oil at 500 mL/100 L spray volume or with a 100% concentrate non-ionic wetter such as BS-1000 at 200 mL/100 L.	Some transitory crop yellowing and height suppression should be expected but yields will be unaffected.
May be tank mixed with Trifluralin 480 or pendimethalin	

CRITICAL COMMENTS
<p><b>Cotton</b> (including Roundup Ready Cotton) – may be banded (&gt;40%) over the row or broadcast.</p> <p><b>WEED CONTROL:</b>  <b>Minimum spray volume 150 L/ha for optimum results.</b>  In pre-emergent situations use the higher rate for longer soil residual effect and better suppression of more tolerant weeds (see weeds suppressed).  In post-emergent situations use 25 g/ha on weeds up to 2 leaf stage and 50 g/ha on larger weeds up to 4 leaf stage and where more residual control is required.</p>

## HARVESTING WITHHOLDING PERIODS

Chickpeas, field peas, lentils, maize, peanuts, pigeon peas and soybeans: **NOT REQUIRED WHEN USED AS DIRECTED**

Winter cereals (barley, cereal rye, oats, triticale, wheat): **DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION**

## GRAZING/STOCK FOOD WITHHOLDING PERIODS

Winter cereals (barley, cereal rye, oats, triticale, wheat), Chickpeas, field peas, lentils, peanuts, pigeon peas, soybeans, Popany vetch:

**DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION**  
**Note: This 4 week WHP covers the use of Relyon Flumetsulam 800 tank mixed with bromoxynil (200 g/L) at 700 mL/ha (Table 2B) on cereals.**

Maize: **DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION**

Fenugreek, lathyrus, lucerne, medic, serradella: **DO NOT GRAZE OR CUT FOR STOCK FOOD OR HARVEST FOR SEED FOR 3 DAYS AFTER APPLICATION**  
**Note: when tank mixing Relyon Flumetsulam 800 with bromoxynil (200 g/L) at 700 mL/ha (Table 2B) a 2 week WHP is required.**

Pastures (unless otherwise specified) **DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.**  
**Note: when tank mixing Relyon Flumetsulam 800 with bromoxynil (200 g/L) at 700 mL/ha (Table 2B) a 2 week WHP is required.**

## 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 is observed before stock are sold or slaughtered.

### EXPORT SLAUGHTER INTERVAL (ESI) – 7 days:

After observing the withholding period for grazing or cutting for stock food, livestock that have been grazed on or fed treated crops should be placed on clean feed for 7 days prior to slaughter.

### EXPORT ANIMAL FEED INTERVAL (EAFI) – 28 days (Fenugreek, lathyrus, lucerne, pasture and serradella only)

**A minimum period of 28 days must elapse between the application of Relyon Flumetsulam 800 Herbicide and grazing or cutting the treated pasture as stockfeed for livestock intended for export.**

## MINIMUM RECROPPING PERIODS:

Relyon Flumetsulam 800 is broken down in the soil by microbial activity. Warm, moist soil conditions favour highest microbial activity and quickest residue breakdown. For the recropping periods NNSW & Qld refers to summer dominant rainfall areas, where crops are grown on deep black earth soils (vertisols), with no impermeable sub-horizon in the top 30cm. SNSW, Vic, Tas, SA and WA refers to winter dominant rainfall areas on soils with no impermeable sub-horizon in the top 30cm. Also see the comments on **rainfall** and **soil type** below.

Crop	Rate (g/ha)	Region	
		NNSW, Qld	SNSW, Vic, Tas, SA, WA
Cereal rye, medics, triticale, wheat, maize or soybeans	25 or 50	May be planted at any time after Relyon Flumetsulam 800 application	May be planted at any time after Relyon Flumetsulam 800 application
Barley, chickpeas, clover, field peas, lucerne, oats and peanuts	25	3 months	3 months
	50	6 months	9 months
Cotton, sorghum or sunflowers	25	6 months	-
	50	9 months	-
Canola, faba beans, fenugreek, lathyrus, lentils, lupins, serradella or Popany vetch	25	6 months	9 months
	50	9 months	12 months

**Rainfall – is required to maintain soil wetness for at least one week over the warm months to enable microbial degradation of herbicide residues to allow safe planting of sensitive crops.** For SNSW, Victoria, Tasmania, SA and WA a minimum of 25 mm and preferably 50 mm or more rain must have fallen over the warm months of the year. For NNSW and Qld a minimum of 50 mm and preferably 100 mm rain or more must have fallen over the warm months of the year.

**Soil type - on shallow, duplex, low organic matter soils with an impermeable sub-horizon within the root zone (30 cm deep or less) and alkaline surface soil, sensitive crops should NOT be planted until 2 years after application of Relyon Flumetsulam 800 at either 25 or 50 g/ha.** (For crops grown in NNSW and Qld on soils other than vertisols, call Nutrien Ag Solutions or your local reseller for more advice).

## GENERAL INSTRUCTIONS

Relyon Flumetsulam 800 granules in water soluble bags readily disperse in water and will do so once added to fast moving water. **Maintain agitation at all times, including during mixing as well as spraying.** Only mix sufficient spray solution for immediate use and avoid storing.

## MIXING

### Spray rigs with premix hoppers

For spray rigs that have a drop down chemical induction hopper, **three-quarter fill this hopper** with water and have the rinsing sprinkler operating. Add the Relyon Flumetsulam 800 water soluble bags and when they are dissolved and the granules are dispersed, transfer this batch into the quarter filled main tank. Continue to rinse the hopper until the entire product has washed through.

### Spray rigs with limited bypass agitation

When Relyon Flumetsulam 800 is added to the spray tank in water soluble bags, for spray rigs that have limited bypass agitation, then as for most granulated formulations, pre-disperse the Relyon Flumetsulam 800 in a bucket before adding them to the main tank. Add Relyon Flumetsulam 800 while stirring until the granules have dispersed.

### Tankmixes – this order should be followed:

1. Quarter fill the spray tank and agitate
2. Add Relyon Flumetsulam 800 using the mixing procedure above
3. Add Relyon Haloxyfop 520 if to be used
4. Half fill the spray tank
5. Add wettable powders, dry flowables, suspension concentrates, soluble liquids and/or emulsifiable concentrates
6. Add Uptake® Spraying Oil when half full
7. Other adjuvants add according to their label
8. Add water to fill the spray tank

## APPLICATION

- Ground Application: Apply Relyon Flumetsulam 800 in 50 to 150 litres of water per hectare through a calibrated sprayer that delivers at least medium quality spray as defined by the American Society of Biological Engineers Standard S572.
- **DO NOT** apply Relyon Flumetsulam 800 under conditions likely to cause drift onto waterways, susceptible crops or land to be planted with susceptible crops. Unsuitable conditions are dead calm, excessive wind and/or small droplets.
- Best results are achieved where applications are made on warm (greater than 5°C), sunny days applying more than 50 L/ha of total spray volume (preferably more than 75 L/ha) and where spray coverage is maximised.

## COMPATIBILITY

- Always allow 7 days between application of a grass herbicide and Relyon Flumetsulam 800 in chickpeas and field peas.
- In lentils, adjuvant, broadleaf or grass herbicide, insecticide and foliar fertiliser tank mixes may result in transient height reduction, crop discolouration and delayed flowering, although yields are normally unaffected. However, stress conditions after application (eg. frost, drought) may lengthen the time needed for lentils to recover and in years where a dry spring occurs, yields may be suppressed.

- Relyon Flumetsulam 800 is compatible with the following:

### Adjuvants

Uptake® Spraying Oil, Hasten® Spray Adjuvant, BS-1000

### Broadleaf herbicides

Atrazine	Diuron (liquid or wettable granule)	Imazethapyr 700 WG Herbicide
Basagran <sup>0</sup> -Herbicide	Clopyralid 750 SG Herbicide Clopyralid 300 Herbicide	Fluroxypyr 200 Herbicide
Bromoxynil	MCPA amine	Pendimethalin 330 Herbicide
2,4-DB	MCPA ester	Terbutryn
Diflufenican (lentils and field peas only)	MCPA sodium salt	Picloram/MCPA 242 Herbicide
Diflu-Brom Selective Herbicide	Metsulfuron	Trifluralin 480

### Grassweed herbicides

Clethodim (lentils only)	Simazine	
Diclofop methyl 375 Herbicide (ryegrass only)	Trifluralin 480	Fluroxypyr 200 Herbicide
Paraquat	clodinafop	Haloxyfop 520 Herbicide
Wildcat <sup>0</sup> Selective Herbicide (wild oats only)		

### Insecticides

Dimethoate, esfenvalerate (lentils only), Chlorpyrifos 500 Insecticides, omethoate

### Fungicides (lentils only)

Carbendazim, chlorothalonil, Dithane® Rainshield®Neo Tec

### Foliar Fertilisers

Broadacre zinc (lentils only)

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### CLEANING SPRAY EQUIPMENT

After using Relyon Flumetsulam 800, 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, lines 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 sensitive crops (which include canola, cotton, faba beans, lupins, sorghum and sunflowers), wash the tank and rinse the system as above. Quarter fill the tank and add an alkali detergent at 500 mL/100 L of water or the powder equivalent at
- 500 g/100 L) 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.

Nufarm Tank and Equipment Cleaner<sup>®</sup> is 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 watercourses.**

#### RESISTANT WEEDS WARNING

<b>GROUP</b>	<b>B</b>	<b>HERBICIDE</b>
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Relyon Flumetsulam 800 Herbicide is a broadleaf herbicide with no annual ryegrass activity and is a member of the triazolopyrimidine sulfonanilide (sulfonamide) group of herbicides. The product has the acetolactate synthase (ALS) inhibitor mode of action. For weed resistance management the product is a Group B herbicide. Some naturally occurring weed biotypes resistant to the product and other Group B 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 Group B herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Nutrien Ag Solutions Limited 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 Nutrien Ag Solutions representative.

#### PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Refer to MINIMUM RECROPPING PERIODS for crop rotation information. Crops susceptible to Relyon Flumetsulam 800 include but are not limited to canola, cotton, faba beans, lupins, sorghum and sunflowers.

**DO NOT flood irrigate any treated crop or pasture for 48 hours after application. Where other types of irrigation are used, for example sprinklers, DO NOT irrigate to the point of runoff for at least 48 hours after application.**

**DO NOT** apply to waterlogged soils or if heavy rain is expected within 48 hours of application. Dangerous to aquatic plants and susceptible crops. DO NOT contaminate dams, waterways or drains with the product or its containers.

**DO NOT** apply under weather conditions, such as dead calm or excessive wind, or from spraying equipment producing small droplets that may cause spray to drift onto adjacent areas, particularly wetlands, waterbodies, watercourses, susceptible crops or land to be planted with susceptible crops.

#### PROTECTION OF LIVESTOCK

**DO NOT** graze or cut treated crops for stock food except as specified under withholding periods. Poisonous plants may become more palatable after spraying, therefore livestock should be kept out of the area until the plants have died down.

#### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

#### STORAGE AND DISPOSAL

Keep out of reach of children. Store in the closed, original container in a securely locked, dry, cool, well-ventilated place, out of direct sunlight. DO NOT store near food, feedstuffs, fertilisers or seed.

**FOIL BAGS:** Single-rinse or shake remainder into spray tank. Do not dispose of undiluted chemicals on site. 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.

**HDPE Bottles:** This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple-rinse container for disposal. Dispose of rinsate by adding it to the spray tank. Do not dispose of undiluted chemical 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 program site. The cap should not be replaced, but may be taken separately.

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.

#### SMALL SPILL MANAGEMENT

Sweep up material and contain in a refuse vessel for disposal in the same manner as for containers (see STORAGE AND DISPOSAL section).

#### SAFETY DIRECTIONS

Product will irritate the eyes. When handling the granules avoid contact with eyes. If product in eyes, wash it out immediately with water. Wash hands after use.

#### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.

**SAFETY DATA SHEET**

For further information refer to the Safety Data Sheet (SDS), which can be obtained from the supplier.

**CONDITIONS OF SALE**

The use of this product is beyond the control of Nutrien Ag Solutions Limited. Any provisions or rights under the Australian Consumer Law which cannot be excluded by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies expressed or implied under common law, statute or otherwise, in relation to the sale, supply, storage, use or application of this product are excluded. Nutrien Ag Solutions Limited does not accept any liability (including consequential loss and/or negligence) for any loss or damage connected with the sale, supply, storage, use or application of this product except for liability which cannot be excluded by statute.

# RELYON®

Nutrien Ag Solutions Limited

Level 5, Building A, 26 Talavera Road, Macquarie Park, NSW 2113.

Tel: (02) 9889 5400

Product Support Tel: 1800 44 88 92

[relyonaustralia.com.au](http://relyonaustralia.com.au)

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