

Flumetsulam 800 WG

HERBICIDE

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 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	SPRAY ADDITIVES/TANK MIXES
Chickpeas	4 - 6 branches (no later than 6 weeks after emergence)	Flumetsulam 800 WG Herbicide usually causes some transient crop yellowing and can cause reddish discoloration and height suppression. Flowering may be delayed resulting in yield suppression.	DO NOT use any spray additives, or tank mix any other chemicals with Flumetsulam 800 WG Herbicide when using on chickpeas and field peas.
Field Peas	2 to 6 nodes (no later than 6 weeks after emergence)	Flumetsulam 800 WG 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 DO NOT apply later than 6 weeks after crop emergence.	Flumetsulam 800 WG may cause transient height reduction, crop discoloration 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.	Uptake® Spraying Oil at 500 mL/100 L or BS-1000® at 200 mL/100 L may be applied with Flumetsulam 800 WG to lentils.
Fenugreek Lathyrus Vetch (Popany only)	3 fully expanded leaves onwards		Use Flumetsulam 800 WG or Flumetsulam 800 WG plus a wetter only. Tank mixtures with other herbicides are not recommended.
Serradella	3 fully expanded leaves onwards		Uptake® Spraying Oil at 500 mL/100 L or BS-1000® at 200 mL/100 L may be applied with Flumetsulam 800 WG for serradella.

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

WEED	WEED GROWTH STAGE		RATE g/ha	CRITICAL COMMENTS
	Up To Leaf No. or	Up To Plant size (cm)		
CONTROLLED				
Amsinckia (Yellow burrweed)	10 leaf	10 cm diameter	25	Where recommended, use of either a wetter or Uptake Spraying Oil with Flumetsulam 800 WG 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.
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		
SUPPRESSED				
Capeweed (WA only)	4 leaf	10 cm diameter	25	Under ideal growing conditions, Flumetsulam 800 WG 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, Flumetsulam 800 WG 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.
Doublegee (Spiny emex) (WA only)	4 leaf	10 cm diameter		
Wild radish	4 leaf	5 cm diameter		

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

CROP / SITUATION	GROWTH STAGES	CROP TOLERANCE	SPRAY ADDITIVES/TANK MIXES
Wheat	3 leaf until start of jointing (Zadoks 13-31)		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.

CROP / SITUATION	GROWTH STAGES	CROP TOLERANCE	SPRAY ADDITIVES/TANK MIXES
Barley Oats	Mid-tillering to start of jointing (Zadoks 23-31)	Transient stem shortening and crop discoloration 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.	Use only with a wetting agent such as BS-1000 when either applying Flumetsulam 800 WG alone or with partner products in barley and oats.
Stirling barley (WA only)	Apply no earlier than Zadoks 31.		
Triticale Cereal rye	Mid-tillering to start of jointing (Zadoks 23-31)		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.
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	Medic, lucerne and subterranean clover (sub clover) - When Flumetsulam 800 WG is applied at 25 g/ha + Uptake or wetter, yield reduction may occur when treating Serena medic or Nungarin sub clover. DO NOT apply to lucerne seed crops less than 8 weeks before flowering.	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. In clover DO NOT use with Diuron In lucerne DO NOT use with MCPA. In medics DO NOT use with MCPA.
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)		Use Uptake Spraying Oil at 500 mL/100 L.
SALVAGE SPRAY			
Cereals: Wheat Barley Oats, Triticale, Cereal rye	Flowering (anthesis) to early dough (Zadoks, 61-83)		
Pastures Lucerne Clover Medics	Advanced seedlings or re-growth after cutting or grazing		

TABLE 2B. WEEDS CONTROLLED IN TABLE 2A CROPS

WEED	WEED GROWTH STAGE		RATE g/ha	CRITICAL COMMENTS
	Up To Leaf No. or	Up To Plant size (cm)		
Amsinckia (Yellow burrweed)	10 leaf	10 cm diameter	25 + Uptake or wetter	
Ball mustard	6 leaf	5 cm diameter		
Buchan weed	8 leaf	10 cm diameter	Lucerne and/or clover only 25 + wetter + 2,4-DB (500 g/L) 1.5-2.5 L/ha Grazing lucerne only 50 + Uptake or 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.
Calepina (White ball mustard)	8 leaf	10 cm diameter	25 + Uptake or wetter	
Capeweed	4 leaf	10 cm diameter	25 + Uptake or wetter + bromoxynil (200 g/L) 700 mL/ha or 25 + wetter + diuron (500 g/L) 100 mL/ha	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.
Charlock	8 leaf	10 cm diameter	25 + Uptake or wetter	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.
Cotula (WA only)	4 leaf	10 cm diameter	25 + Uptake or wetter	Use Uptake Spraying Oil at 500 mL/100 L or wetting agent such as BS-1000 at 200 mL/100 L.
Doublegee (Spiny emex)	4 leaf	10 cm diameter	25 + wetter + diuron (500 g/L) 100 mL/ha	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.
	6 leaf	15 cm diameter	25 + Uptake or wetter + bromoxynil (200 g/L) 700 mL/ha or 25 + wetter + 2,4-DB (500 g/L) 1.5 - 2.5 L/ha or 25 + wetter + diuron (500 g/L) 1 L/ha for Mature lucerne only	Use Uptake Spraying Oil or a wetter with Flumetsulam 800 WG + bromoxynil tank mixture. Only use a wetter with Flumetsulam 800 WG + 2,4-DB or Flumetsulam 800 WG + diuron tank mixes
Dwarf marigold (Poverty weed)	10 leaf	15 cm high	15 + Uptake or wetter	
Fat hen	15 leaf	20 cm high	Spring/summer pasture and lucerne only 25 + Uptake or wetter Grazing lucerne only 50 + Uptake or 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.

TABLE 2B. WEEDS CONTROLLED IN TABLE 2A CROPS (continued)

WEED	WEED GROWTH STAGE		RATE g/ha	CRITICAL COMMENTS
	Up To Leaf No. or	Up To Plant size (cm)		
Fumitory	6 leaf	8 cm diameter	25 + 300 mL/ha terbutryn (500 g/L) + wetter	Only use a wetter with Flumetsulam 800 WG + terbutryn tank mixes.
Hedge mustard Indian hedge mustard	8 leaf	10 cm diameter	25 + Uptake	Note: This mixture is only approved for use in NSW, Vic and Tasmania on pastures.
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 or 15 + wetter + 700 mL/ha bromoxynil-MCPA (200 g/L + 200 g/L), or 15 + wetter + 350 mL/ha terbutryn (500 g/L) + 700 mL/ha MCPA amine (500 g/L)	Add a wetter to MCPA/terbutryn or bromoxynil-MCPA mixes. Only use bromoxynil/MCPA and terbutryn + MCPA mixes in cereals that are NOT undersown with clovers, medics or lucerne.
	10 leaf	20 cm diameter	25 + wetter + 2,4-DB (500 g/L) 1.5-2.5 L/ha Grazing lucerne only 50 + Uptake or wetter	For older plants see Weeds Suppressed. Only use a wetter with Flumetsulam 800 WG + 2,4 D,B tank mixes. 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.
Paterson's curse (Salvation Jane)	8 leaf	10 cm diameter	25 + Uptake or wetter + bromoxynil (200 g/L) 700 mL/ha or 25 + wetter + terbutryn (500 g/L) 300 mL/ha or 25 + wetter + diuron (500 g/L) 1L/ha for Mature lucerne only	In pasture, larger plants and any affected by stress or grazing prior to treatment may re-grow 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. Only use a wetter with Flumetsulam 800 WG + diuron tank mixes.
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	
Volunteer canola	8 leaf	10 cm diameter	25 + Uptake or wetter	
Ward's weed	8 leaf	10 cm diameter		
Wild radish	6 leaf	15 cm diameter	25 + Uptake or wetter + bromoxynil (200 g/L) 700 mL/ha or 25 + wetter + MCPA amine (500 g/L) 500 mL/ha or 25 + wetter + diuron (500 g/L) 1 L/ha for Mature lucerne only	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. DO NOT use MCPA amine in cereals undersown with clover, medics or lucerne. In lucerne DO NOT use MCPA. In medics DO NOT use MCPA
Wild radish (cereals)	6 leaf	15 cm diameter	15 + wetter + 700 mL/ha bromoxynil/MCPA (200 g/L + 200 g/L) or 15 + Uptake or wetter + 700 mL/ha MCPA amine (500 g/L) or 15 + wetter + 700 mL/ha MCPA amine (500 g/L) + 350 mL/ha terbutryn (500 g/L)	Add Uptake Spraying Oil or wetter to Flumetsulam 800 WG mixes with MCPA amine and a wetter to Flumetsulam 800 WG + MCPA/terbutryn or Flumetsulam 800 WG + bromoxynil/MCPA mixes. DO NOT use MCPA amine or MCPA amine + terbutryn in cereals undersown with clover, medics or lucerne.
Wild turnip	10 leaf	10 cm diameter	25 + Uptake or wetter	

