

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



Battalia 435

HERBICIDE

ACTIVE CONSTITUENT: 435 g/L PENDIMETHALIN

SOLVENT: 473 g/L LIQUID HYDROCARBON

GROUP D HERBICIDE

For the control of wireweed, annual grasses (including annual ryegrass) and certain broadleaf weeds in the various crops as shown in the DIRECTIONS FOR USE TABLE.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE OPENING OR USING THIS PRODUCT

indigo
SPECIALTY PRODUCTS

Indigo Specialty Products Pty Ltd
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Rocklea, QLD 4106
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Contents
20 L



Battalia 435

HERBICIDE

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight.

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 regulation. Do not burn empty containers or product.

Refillable Containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage. The container remains the property of Indigo Specialty Products Pty Ltd.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes nose and throat and skin. Avoid contact with eyes and skin. DO NOT inhale vapour. When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow length nitrile gloves and face shield or goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766. If swallowed, DO NOT induce vomiting.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for ProForce Battalia 435 Herbicide is available from Indigo Specialty Products Pty Ltd on request.

Combustible liquid.

Keep away from flames and hot surfaces. - No smoking.

In case of fire, use carbon dioxide, dry chemical, foam, water fog.

May be fatal if swallowed and enters airways.

May cause respiratory irritation.

May cause an allergic skin reaction.

Repeated exposure may cause skin dryness or cracking.

Do not eat, drink or smoke when using this product.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

CONDITIONS OF SALE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty (other than non-excludable statutory warranties) of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under off-label permits not endorsed by Indigo Specialty Products Pty Ltd or under abnormal conditions. Indigo Specialty Products Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use.

	IN A TRANSPORT EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE
	SPECIALIST ADVICE IN AN EMERGENCY ONLY 0417 653 654 ALL HOURS – AUSTRALIA WIDE



9 343713 004851

20L

Batch No.

Date of
Manufacture

APVMA Approval No.: 68776/122759



Battalia 435

HERBICIDE

DIRECTIONS FOR USE
RESTRAINTS:
DO NOT sow sensitive summer crops such as sorghum and millets within 12 months of application of BATTALIA 435.
DO NOT apply to a poorly prepared seedbed.
DO NOT use BATTALIA 435 mixed with atrazine on heavy clay soils.
DO NOT apply BATTALIA 435 where waterlogging is likely to occur.

PRE-PLANT INCORPORATION (DOUBLE INCORPORATION):
For all crops listed in the double incorporation table below:
INCORPORATE BATTALIA 435 INTO THE SOIL WITHIN 24 HOURS OF APPLICATION. Refer to the Notes on Incorporation under the heading General Instructions.
Where a range of application rates are provided, use the higher rate on heavy textured soils or those high in organic matter and the lower rate on light to medium textured soils. Application to soil types with poor structural characteristics or that are poorly worked may result in insufficient and uneven incorporation and, subsequently less than satisfactory weed control. Heavy soils, which are cloddy or have a surface crust or surface seal, are to be avoided. Attempting to incorporate BATTALIA 435 when soils are very wet or very dry may also result in poor weed control due to insufficient mixing. Refer to the General Instructions, especially "Cereal Seed Dressings" and "Weather Conditions at Planting" for further information on emergence.

SITUATION / CROP	WEEDS CONTROLLED	STATE	RATE/ TREATED HA	CRITICAL COMMENTS
Cotton	See Weed Table A	Qld, NSW only	2.28 L	Use a combine with trailing harrows and chain or offset or tandem discs or Lilliston cultivators, set to work to a depth of 2-5 cm.
Cow Peas, Navy Beans, Mung Beans, Peanuts, Pigeon Peas and Soybeans	Annual Ryegrass (<i>Lolium rigidum</i>), Wireweed (<i>Polygonum aviculare</i>), Suppression only of Wild oats (<i>Avena</i> spp.)	Qld, ACT, NSW, NT only	1.9 to 2.3 L	Subsequent planting operations in irrigated cotton may remove the BATTALIA 435 treated soil from hills leaving an untreated band over the row, requiring a further application of BATTALIA 435 or other herbicides in that band. When the seedbed is rough, a second incorporation is necessary. BATTALIA 435 may be applied either by aerial or ground rig. In the Macquarie area, only apply by air when ground is too wet for ground application. (See incorporation point (a) in General Instructions section) Use the higher rate on heavy textured soils or those high in organic matter and the lower rate on light to medium textured soils.
Sunflowers		Qld, ACT, NSW, Vic, SA, Tas only		
Barley and Wheat		All States	910 mL	Use weighted harrows at 8-13 km/hr, followed by a cross working with a combine set to work at a depth of 2-5 cm at 8-13 km/hr. (See incorporation point (a) in General Instructions section) Wheat and barley seed must be sown approximately 1 cm beneath the chemically treated band or reduced emergence may occur. If wild oats are expected to be a problem use a wild oat herbicide.
Field Peas	Suppression only of Wild oats (<i>Avena</i> spp.)	Southern NSW, ACT, Vic, Tas, SA and WA only	1.5 L	Use weighted harrows at 8-13 km/hr followed by a cross- working with a combine set to work at a depth of 2-5 cm at 8- 13 km/hr. (See incorporation point (a) in General Instructions section) Seed should be sown below the chemical band. Use cover harrows behind the combine. Use a wild oat herbicide if wild oats are expected to be a problem.
Chickpeas, Faba Beans, Lentils, Lupins and Safflower		Qld and Northern NSW and Tas* only	1.9 to 2.3 L	*LUPINS: In Tasmania, use only on species <i>Lupinus angustifolius</i> . DO NOT use on <i>L. albus</i>

PRE-PLANT APPLICATION (INCORPORATION DURING SOWING):

SITUATION / CROP	WEEDS CONTROLLED	STATE	RATE/ TREATED HA	CRITICAL COMMENTS
Barley and Wheat (including crops with undersown lucerne)	Annual Ryegrass (<i>Lolium rigidum</i>), Wireweed (<i>Polygonum aviculare</i>), Suppression only of Wild oats (<i>Avena</i> spp.)	All States	1.4 L	For all crops except canola (including barley, wheat and crops with undersown lucerne): Where full (double) incorporation is impractical and where the seedbed tilth is fine and free of large stones and trash, apply BATTALIA 435, up to 24 hours prior to sowing. Incorporate with the combine set to sow to a depth of 3-5 cm. Use trailing harrows. (Refer to "Incorporation Point (a)" under the heading "General Instructions"). In minimum till situations, only light incorporation will occur due to soil displaced by the points. Trailing harrows should be used to provide better incorporation and weed control. Avoid heavy incorporation, leading to reduced weed control. Wheat and barley seed must be sown at least 1 cm beneath the chemically treated band or reduced emergence may occur. Refer sections "Cereal Seed Dressings " and "Weather Conditions at planting" under General Instructions for further information on emergence. CAUTION: Ensure thorough incorporation to maximise safety of undersown lucerne.
Canola (including crops with undersown lucerne)	Suppression only of Silvergrass (<i>Vulpia</i> spp.)	Southern NSW, ACT, Vic, SA, WA only	1.4 to 2.3 L 1.5 to 2.3 L	Canola (including crops where lucerne is undersown): Apply BATTALIA 435 up to 24 hours prior to sowing and ensure BATTALIA 435 is well incorporated. Sow canola at the appropriate depth for conditions (approximately 1-3 cm). Canola seed can be placed within the treated band. Use the higher rates on medium to heavy textured soils and the lower rates on light textured soils. NOTE: Development in water-logged conditions after the application of BATTALIA 435 may retard the emergence of canola. If wild oats re expected to be a problem use wild oat herbicide. Application to heavier soil types that have poor structural characteristics or are poorly worked may result in insufficient and uneven incorporation and unsatisfactory weed control. Heavy soils that are cloddy or have a surface crust or surface seal should be avoided. Attempting to incorporate BATTALIA 435 when soils are very wet or very dry may also result in insufficient mixing and therefore poor weed control. CAUTION: Ensure thorough incorporation to maximise safety to undersown lucerne. Use the lower rate when canola is undersown with lucerne.
Chickpeas, Faba Beans, Field Peas, Lentils, Lupins and Safflower	Annual Ryegrass (<i>Lolium rigidum</i>), Wireweed (<i>Polygonum aviculare</i>) Suppression only of Silver Grass (<i>Vulpia</i> spp) and Wild Oats (<i>Avena</i> spp.)	Southern NSW, ACT, Vic, SA, WA only	1.5 to 2.3 L	Where full (double) incorporation is impractical and where the seedbed tilth is fine and free of large stones and trash, apply BATTALIA 435, or in the case of lupins, BATTALIA 435 and Simazine, up to 24 hours prior to sowing. Incorporate with the combine set to sow to a depth of 3-5 cm. Use trailing harrows. (Refer to note (a) under "Incorporation"). Application to heavier soil types which have poor structural characteristics or are poorly worked may result in insufficient and uneven incorporation and unsatisfactory weed control. Heavy soils that are cloddy or have a surface crust or surface seal should be avoided. Attempting to incorporate BATTALIA 435 when soils are very wet or very dry may also result in insufficient mixing and therefore poor weed control. Refer to section on "Weather Conditions at Planting" under "General Instructions" for further information on emergence. If wild oats are expected to be a problem use a wild oat herbicide. Use the higher rates on medium to heavy textured soils and the lower rates on light textured soils.
Lupins		WA only	1.5 L plus simazine at 500 g ai/ha	
		NSW, ACT, Vic, SA only	1.5 L plus simazine at 1.5 kg ai/ha	

POST-PLANT PRE-EMERGENCE APPLICATION (OVERALL BAND SPRAYING): NON- MECHANICAL INCORPORATION:

SITUATION / CROP	WEEDS CONTROLLED	STATE	RATE/ TREATED HA	CRITICAL COMMENTS
Cotton	See Weed Table B	Qld, NSW, only	3.4 L	Where incorporation prior to sowing is impractical and where the seedbed tilth is fine and free of large stones and trash, BATTALIA 435 should be applied within 48 hours after sowing.
Sunflowers		Qld, NSW, ACT, SA only		Where incorporation prior to sowing is impractical and where the seedbed tilth is fine and free of large stones and trash, BATTALIA 435 should be applied after sowing and before the emergence of the crop and weeds. Where Fat Hen or Blackberry Nightshade is expected to be a major problem, pre-plant incorporation (double incorporation application method) is preferred. Refer to the relevant sections under the heading "Incorporation Points (a) and (b)" in "General Instructions" .
Maize	See Weed Table B	Qld, NSW, ACT, NT only	3.4 L	Use BATTALIA 435 after planting and before emergence of the crop or weeds, especially where grasses are expected to be the major problem. DO NOT incorporate. Avoid application in dry weather as this may cause pruning of aerial roots and lodging. Refer to the relevant sections under "Incorporation Points (b) and (c)" in the "General Instructions".
	See Weed Table C		2.3 L plus atrazine at 1.0 kg ai/ha	BATTALIA 435 should be applied in a tank mix with atrazine after planting and before the emergence of crop and weeds, where Thornapple, Noogoora Burr, Bathurst Burr, Caltrop, Paddy Melon or Mintweed are expected to be a major problem. DO NOT incorporate this mixture. Follow directions on atrazine label carefully. This treatment should not lead to soil residue problems with atrazine as the application rate is low. DO NOT use BATTALIA 435 mixed with atrazine on heavy clay soils, as weed control may not be adequate. Refer to the section on "Incorporation" under the heading "General Instructions Points (b) and (c)".
Broad Beans	Poppies, Wireweed (<i>Polygonum aviculare</i>)	Tas only	3 L	MINIMUM PLANTING DEPTH: Carrots: 15 mm, Broad Beans, Processing peas and French beans: 30 mm. Seed should be sown with press wheels or rollers behind the planter in order to ensure coverage of the seed and compaction of the seed bed. Apply BATTALIA 435 to a fine seedbed free of ridges, clods and trash within 2 days after sowing. Use the higher rates on heavier textured soils or those with a higher organic matter content. Incorporate with 12-25 mm of spray irrigation or rainfall within one day of application for optimum performance. DO NOT disturb the soil by rolling or harrowing after BATTALIA 435 has been applied. DO NOT apply where heavy rainfall or irrigation is likely to lead to water logging. DO NOT use BATTALIA 435 on soils with an organic matter content above 6% or inconsistent weed control may occur. FRENCH BEANS: For Qld use in the Lockyer and Fassifern Valleys only. DO NOT apply to French beans sown during the autumn, winter or early spring or which are likely to be stressed by cold weather.
Carrots	See Weed Table D Weed Table D plus Wild Radish (<i>Raphanus raphanistrum</i>), and Sowthistle (<i>Sonchus oleraceus</i>)	Qld, ACT, NSW, Vic, SA, WA , Tas only	1.5-2.3 L 1.5 L plus linuron at 1.0 kg ai/ha	
Processing Pea	See Weed Table D	Qld, Vic only	1.5 - 3 L	
French beans		Tas only	3 L	
		Qld, Tas only	2.3-3 L	
Onions	Hogweed (Wireweed) (<i>Polygonum aviculare</i>)	Tas only	570 mL- 760 mL	Apply in conjunction with other herbicides as advised by a qualified crop adviser to ensure an adequate level of weed control is achieved in adverse conditions. Pre-Emergence: DO NOT use on sandy soils. MINIMUM PLANTING DEPTH: 15 mm. Apply from immediately after sowing until just prior to emergence. Apply BATTALIA 435 to a fine, firm seedbed free of clods and trash. Use the higher rates on heavy textured soils or those with a high organic content. For optimum performance, incorporate with no more than 12 to 25 mm of spray irrigation within one day of application. DO NOT exceed 570 mL/ha if soil conditions are wet and cold. Post-Emergence: Apply BATTALIA 435 from the first true leaf until the 3 leaf stage. Repeat applications may be made after the 1 leaf up to the 3 leaf stage providing total usage of BATTALIA 435 on crop does not exceed 2.3 L/ha. Avoid applying BATTALIA 435 to areas where water logging is likely to occur.
		NSW, ACT, Vic, SA, WA only	760 mL to 1.5 L/ha	• Apply in conjunction with other herbicides as advised by a qualified crop adviser to ensure that an adequate level of weed control is achieved in adverse conditions. • Depth of sowing is critical. Onions must be sown to a depth of at least 15 mm with press wheels or rollers behind planter to ensure coverage and compaction. • DO NOT disturb the soil by rolling or harrowing after application. • For optimum performance, incorporate with spray irrigation within a day of planting. However, DO NOT water heavily (no more than 12mm irrigation) for at least 5 days after application. • Avoid application to areas where water logging is likely to occur. • DO NOT apply if heavy rain is likely within a week of application, as crop damage may result. • DO NOT exceed 570 mL if soil conditions are wet and cold. • DO NOT apply more than 3 times per season. • DO NOT apply more than 2.3 L/ha per season.
			570 mL- 760 mL (see Critical Comments)	Light/sandy soils: DO NOT apply pre-emergence. Application to moist soil is best. Apply 570-760 mL/ha post-emergence at the 4-5 leaf stage, with 1-2 further applications of 570-760 mL/ha as needed throughout the season (approximately 3-4 weeks apart).
			760 mL-1.5 L (See Critical Comments)	Heavy/high organic matter soils: Application to moist soil is best. Apply 760 mL-1.5 L pre-emergence, within 2 days of planting. Apply to a fine firm seed bed, free of ridges, clods and trash. For furrow irrigated crops. Application to a dry seed bed, followed by irrigation within 5 days is optimal. Application of 760 mL-1.5 L/ha post emergence may be made at the 2 leaf stage. (Application at this stage may cause yellowing of colours).

POST-PLANT, PRE-EMERGENCE TREATMENT (INCORPORATED OR NON- INCORPORATED)

SITUATION / CROP	WEEDS CONTROLLED	STATE	RATE/ TREATED HA	CRITICAL COMMENTS
Sugar cane	Summer Grass (<i>Digitaria ciliaris</i>), Awlless Barnyard Grass (<i>Echinochloa colona</i>), Crowsfoot Grass (<i>Eleusine indica</i>), Guinea Grass (<i>Panicum maximum c.v Hamil and c.v Guinea</i>), Green Summer Grass (<i>Brachiaria subquadriflora</i>)	Qld, NSW, WA only	2.3-3.4 L	BATTALIA 435 should be applied as soon as possible after planting and before weed emergence. Consolidation (cutaway operation) of the planting furrow prior to application, to prevent soil movement into the base of the drill, is recommended. Expect poor grass control in soils, which contain a high percentage of organic matter. (Refer to "Incorporation Point (a)" under "General Instructions"). Use the higher rate where longer weed control is required, or where incorporation by irrigation or rainfall is likely to be delayed more than 5 days. NOTE: INCORPORATION: Under dry conditions or where some cultivation is expected after application BATTALIA 435 should be thoroughly incorporated by finger rakes to a shallow depth. In subsequent tillage operations, cultivation depth should not exceed the depth of incorporation. WATER INCORPORATION: Incorporate using 12 to 25 mm of spray irrigation or rainfall. Incorporate as soon as possible and within 3-5 days of application. The area should not be disturbed by cultivation for the expected duration of weed control when this method of application is used. If excessive irrigation or rainfall occurs after the application of BATTALIA 435, resulting in the movement of soil from the top to the bottom of the planting drill, weed control will be reduced. For other broadleaf weeds higher rates of atrazine or diuron can be tank mixed with BATTALIA 435 – see the relevant atrazine or diuron labels for details. TANK MIXTURES: Read and follow all label directions including restraints, spray drift restraints, mandatory no-spray zones, critical comments, withholding periods, regional use restrictions and safety directions for the tank mix products.
	Blue Top (Blue Billygoat Weed) (<i>Ageratum houstonianum</i>)		2.3 L plus atrazine at 1.5 kg ai/ha or diuron at 1.5 kg ai/ha	
	Barnyard Grass (<i>E. crus-galli</i>), Blackberry nightshade (<i>Solanum nigrum</i>), Blue Top (Blue Billygoat Weed) (<i>Ageratum houstonianum</i>), Common sida (<i>Sida rhombifolia</i>), Giant/ black Pigweed (<i>Trianthema portulacastrum</i>), Glossy nightshade (<i>Solanum americanum</i>), Green amaranth (<i>Amaranthus viridis</i>), Ipomoea spp., Liverseed Grass (<i>Urochloa panicoides</i>), Milkweed (Mexican Fire Plant) (<i>Euphorbia heterophylla</i>), Pigweed (<i>Portulaca oleracea</i>)		2.3 L plus 400 mL/ha Farnalinx Torch 240 SL	Incorporate as soon as possible and within 3-5 days of application, either by overhead irrigation, rainfall or mechanical incorporation, to a minimum depth of 5 cm. Read all directions for use in sugarcane on the Farnalinx Torch 240 SL Herbicide label.

POST PLANT AND FLUSHING: BATTALIA 435 Tank Mixtures

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE/ TREATED HA	CRITICAL COMMENTS
Combine sown rice	Barnyard grass (<i>Echinochloa</i> spp.), Silvertop Grass (Brown Beetle Grass) (<i>Diplachne reptans</i>), Starfruit (<i>Damasonium minus</i>)	Qld, NSW, NT only	2.3 L plus propanil at 1.8 kg ai/ha	Apply tank mixture up to the 2-leaf stage of Barnyard Grass and 1-leaf stage of Silvertop, either by ground rig in 70-100 L/ha or by aircraft in 25-30 L/ha total spray volume. WATER MANAGEMENT: Flush immediately after sowing to enable a good even germination of rice and to ensure the soil surface is sealed. Apply a second flush or permanent flood after 2 days but no later than 5 days after application. To assist in the control of Barnyard Grass, permanent water should be applied as soon as the rice can tolerate it and levels maintained for optimum crop growth. RICE STAGE: After the first flushing irrigation, the stage of rice at application of this tank mixture is not critical. Timing should be based on the stage of weed growth and water management. However, DO NOT apply to rice in a weakened condition as a result of soil salts, moisture stress, over watering, or any other cause. Some transient leaf burn of the rice may result after application but no long-term effects will result. Rice seed should be covered with at least 1 cm of water after the first flushing irrigation before BATTALIA 435 plus propanil is applied to the germinating rice seed.
Combine sown rice and pasture sod sown rice	As above plus Suppression of Annual Sedges (<i>Cyperus</i> spp.)		2.3 or 3.4 L plus paraquat at 200 g ai/ha	Use the higher rate when sowing into pasture sod sown rice for Annual Sedge Control, or when more than 10 days is expected between treatment and permanent water. Apply up to the 3-leaf stage of Barnyard Grass, Silvertop and Sedges, before rice emergence. Apply by ground rig in 70-100 L/ha of water total spray volume. WATER MANAGEMENT: Flush immediately after sowing to enable a good even germination of rice. The soil surface must be sealed by a flushing irrigation or rainfall before the application of BATTALIA 435 plus paraquat. Apply a second flush or permanent flood after 1 day but not later than 5 days after the application of BATTALIA 435 plus paraquat. To assist in the control of Barnyard Grass, permanent water should be applied as soon as the rice can tolerate it and levels maintained for optimum growth of rice. RICE STAGE: After the first flushing irrigation, BATTALIA 435 plus paraquat must be applied before rice emergence. DO NOT apply to rice in a weakened condition from causes such as soil salts, moisture stress, over-watering, or any other cause.

