

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Linuron DF

herbicide

ACTIVE CONSTITUENT: 500 g/kg LINURON

GROUP C HERBICIDE

For the selective weed control in carrots, coriander, parsnips, cereals, onions, potatoes, soybeans, sweet corn and maize as per Directions For Use table.



**IMPORTANT:
READ THIS BOOKLET BEFORE USE**

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In a transport emergency dial 000, Police or Fire Brigade.
For specialist advice in an emergency only, call 1800 033 111 (24 hours).

DIRECTIONS FOR USE

RESTRAINTS:

Sufficient moisture, either by irrigation or rainfall is required within 3-4 days of application to carry the product into the soil profile.

CROPS	WEEDS CONTROLLED	STATE	RATE/ha		CRITICAL COMMENTS
			LIGHT SOILS	HEAVY SOILS	
Carrots & Parsnips	Annual Broadleaved Weeds and Grasses such as: Amaranth, Blackberry Nightshade, Capeweed, Chickweed, Common Sowthistle, Corn Spurry, Deadnettle, Doublegee/ Threecorned Jack (Spiny Emex), Fat-hen, Hedge Mustards, Heliotrope, Marsh Mallow, Paterson's Curse, Pigweed, Potato Weed, Redshank, Scarlet Pimpernel, Staggerweed, Stinging Nettle, Summer grass (Summer grass not controlled in Qld or November to February in other states), Swinecress, Variegated Thistle, Wild Mustard, Wild Radish, Wild Turnip, Winter Grass	All States	2.2 kg	4.5 kg	Pre-emergence: Apply immediately after planting but before crop emerges. DO NOT use on light sandy soils, low in clay or organic matter. Carrots and Parsnips: Heavy rains after application may cause crop damage. DO NOT replant treated areas to other crops within 3 months of application.
Carrots			1.1 kg	2.2 kg	
Coriander Seed Crops	Amsinckia, Capeweed, Charlock, Corn Gromwell (Sheepweed, White Ironweed), Deadnettle, Doublegee /Threecorned Jack (Spiny Emex), Fat-hen, Hedge Mustard, Indian Hedge Mustard, Saffron Thistle, Stinging Nettle, Wild Radish, Wild Turnip	SA, Vic, NSW, Tas only	750 g	1.0 kg	DO NOT use this product on fresh coriander production. Use lower rate quoted on light soils and increase up to the higher rate for heavy clay soils or soils high in organic matter. Pre-emergence: Apply immediately after sowing. Post-emergence: Apply from 2 leaf onwards. Higher rates give longer residual control. Wet soil and/or rain is a benefit soon after application.
Onions	Annual Broadleaved Weeds such as: Black Bindweed, Capeweed, Charlock, Chickweed, Clover, Common Sowthistle, Corn Spurry, Deadnettle, Fat-hen, Field Cress, Hedge Mustards, Lesser Swinecress, Medics, Prickly Sowthistle, Shepherd's Purse, Spear Thistle, Stinging Nettle, Wild Mustard, Wild Radish, Wild Turnip	Qld, NSW, Vic, SA, WA only	300 g	550 g	Post-emergence only: Apply when onions are 15 cm or more in height. Retreat when necessary. Post-emergence only: Apply lowest rate when onion plants are 2 – 3 leaf stage and high rate from 3 leaf stage onwards. Up to three applications may be used.
		Tas only	700 g to 1 kg		
Potatoes	Annual Broadleaved Weeds and Grasses such as: Amaranth, Apple-of-Peru, Blackberry Nightshade, Capeweed, Chickweed, Clover, Common Sowthistle, Corn Spurry, Deadnettle, Doublegee/ Threecorned Jack (Spiny Emex), Fat-hen, Hedge Mustard, Pigweed, Potato Weed, Redshank, Shepherd's Purse, Staggerweed, Stinging Nettle, Wild Mustard, Wild Radish, Wild Turnip, Winter Grass, Winter Weed, Wireweed	All States	2.2 kg	4.5 kg	Pre-emergence: Apply after plating but before emergence of crop. Incorporate by irrigation or rainfall as soon as possible after application. DO NOT cultivate after application. Use higher rate during summer months.
Soybeans	Annual Broadleaved Weeds and Grasses such as: Amaranth, Apple-of-Peru, Barnyard Grass, Bathurst Burr, Black Bindweed, Blackberry Nightshade, Common Sowthistle, Fat-hen, Hedge Mustards, Noogoora Burr, Pigweed, Potato Weed, Redshank, Stinking Roger, Summer Grass, Turnip Weed, Wild Radish	Qld, NSW, Vic, WA only	2.2 kg	5.5 kg	Pre-emergence: Apply within 2 – 3 days after sowing. Sow beans to a depth of at least 2.5 cm. Heavy rains after application may cause crop damage. DO NOT replant treated area to other crops within 3 months of application.
Sweet corn and Maize	Refer to weeds under Soybeans plus Stinging Nettle, Wild Mustard, Wild Turnip. Apply where grasses are not a problem.	All States	–	2.2 to 3.5 kg	Pre-emergence: Apply as a band of broadcast treatment immediately after planting. DO NOT use on light sandy soils low in clay or organic matter. Heavy rains after application may cause crop damage.
	Refer to weeds above. Apply where Barnyard grass or Summer grass are a problem.		–	4.5 to 5.5 kg	
	Refer to weeds under Soybeans plus Stinging Nettle, Wild Mustard and Wild Turnip. Apply where grasses are not a problem.		1.1 to 2.2 kg	2.2 to 4.5 kg	Post-emergence: Apply as directed band spray to each side row when crop is 30 – 40 cm high. DO NOT use misting machines. Avoid spray contact with crop foliage as injury may result. DO NOT replant treated areas to other crops within 3 months of application. If weeds are present add a wetting agent at the use rate on its label.
	Refer to weeds above. Apply where Barnyard grass or Summer grass are a problem.		1.1 to 3.5 kg	2.2 to 5.5 kg	
Wheat, Oats and Barley	Capeweed, Charlock, Corn Gromwell (Sheepweed, White Ironweed), Deadnettle, Doublegee/ Threecorned Jack (Spiny Emex), Fat-Hen, Hedge Mustard, Indian Hedge Mustard, Stinging Nettle, Wild Radish, Wild Turnip	All States	500 g		All Weeds: For best results apply early. DO NOT apply Linuron DF if weeds are greater than 15 cm in height or diameter, or crop is beyond early tillering or crop and weeds are under drought stress. Apply when weeds are less than 5 cm in height or diameter, crop is in 2–4 leaf stage and soils is moist enough for good growth of crop and weed seedlings.
	As above plus Amsinckia and Saffron Thistle		850 g		

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

WITHHOLDING PERIODS

CARROTS AND CORIANDER:

– **DO NOT HARVEST FOR 10 WEEKS AFTER APPLICATION.**

BARLEY, MAIZE, OATS, ONIONS, PARSNIPS, POTATOES, SOYBEANS, SWEET CORN, WHEAT:

– **NOT REQUIRED WHEN USED AS DIRECTED.**

GENERAL INSTRUCTIONS

This product is a foliar absorbed and residual herbicide i.e. it controls weeds present at application by absorption through the foliage and subsequent germination of weeds through root absorption. For best results, apply to well cultivated, weed-free surface which is free of trash and clods. DO NOT cultivate after application of the product as weed control may be reduced and/or crop injury may result.

RESISTANT WEEDS WARNING **GROUP C HERBICIDE**

Linuron DF herbicide is a member of the Urea group of herbicides. Linuron DF herbicide has the inhibitors of photosynthesis at photosystem II mode of action. For weed resistance management Linuron DF herbicide is a Group C herbicide.

Some naturally-occurring weed biotypes resistant to Linuron DF herbicide and other inhibitors of photosynthesis at photosystem II 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 may not be controlled by Linuron DF herbicide or other inhibitors of photosynthesis at photosystem II herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Tessenderlo Kerley, Inc. accepts no responsibility for any losses that may result from the failure of Linuron DF herbicide to control resistant weeds.

Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier, consultants, local Department of Agriculture or Primary industries, or local AgNova Technologies representative.

EQUIPMENT AND MIXING INSTRUCTIONS

Linuron DF herbicide is a dry flowable formulation to be mixed with water and applied as a spray. Partially fill the spray tank with water. Measure the amount of product required as indicated in the directions for use table. Add this to the spray tank with the agitation system engaged. Top up tank to the correct water volume. To prevent nozzle blockage, strainer and nozzle screens should be 50 mesh or coarser.

THE MATERIAL MUST BE KEPT IN SUSPENSION AT ALL TIMES BY CONTINUOUS AGITATION.

Water Volume & Spray Pressure

- a) *Pre-Emergence*: 300 - 500 L/ha and 200 - 300 kPa pressure.
- b) *Post-Emergence*: Use minimum of 300 L/ha and 140 -170 kPa pressure.
- c) *Band Treatments*: Use proportionately less.
- d) Wheat, Barley, Oats only
 - *Aerial Application*: Use a minimum of 20 L/ha spray under optimum conditions otherwise a minimum of 30 L/ha.
 - *Ground Application*: Apply in a minimum of 90 L/ha (spray).

SPRAY EQUIPMENT HYGIENE

Before and after spraying Linuron DF, spray equipment including tanks, nozzles, filters and spraylines should be cleaned thoroughly with a commercially available tank and equipment cleaner such as All Clear®.

STORAGE AND DISPOSAL

Keep out of reach of children. Store in the closed, original container in a dry, well ventilated area, as cool as possible out of direct sunlight. **DO NOT** store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers. Empty all bag contents into spray tank. **DO NOT** dispose of undiluted chemical on site. Break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the container below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and where roots of desirable plants may extend. Empty containers and product should **NOT** be burnt.

SAFETY DIRECTIONS

May irritate the eyes and skin. Avoid contact with the eyes and skin. **DO NOT** inhale dust or spray mist. If product on skin, immediately wash the area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

MATERIAL SAFETY DATA SHEET

For further data, refer to the Material Safety Data Sheet, (MSDS) available from AgNova Technologies Pty Ltd.

CONDITIONS OF SALE

AgNova Technologies Pty. Ltd. and Tessenderlo Kerley, Inc. shall not be liable for any consequential or other loss or damage relating to the supply or subsequent handling or use of this product, unless such liability by law cannot be lawfully excluded or limited. All warranties, conditions or rights implied by statute or other law which may be lawfully excluded are so excluded. Where the liability of AgNova Technologies Pty. Ltd. and Tessenderlo Kerley, Inc. for breach of any such statutory warranties and conditions cannot be lawfully excluded but may be limited to it re-supplying the product or an equivalent product or the cost of a product or an equivalent product, then the liability of AgNova Technologies Pty. Ltd. and Tessenderlo Kerley, Inc. for any breach of such statutory warranty or condition is so limited.

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