

AGPRO

RAINBOW

WARNING
Keep Out Of Reach of Children
ECOTOXIC

LIRON

Group	C ₂	Herbicide
-------	----------------	-----------

Contains 450 g/L Linuron in the form of a suspension concentrate.

Liron is a selective herbicide for the control of weeds in Asparagus, Broad beans, Carrots, Celery, Grapes, Leeks, Linseed, Maize, Onions, Parsnips, Pip fruit, Potatoes, Soya beans, Stonefruit and Sweetcorn.

Registered pursuant to the ACVM Act 1997 No: P009494
See www.nzfa.govt/acvm for registration conditions.
Approved pursuant to HSNO Act 1996 No HSR100376
See www.epa.govt.nz for approval conditions

Date of manufacture:
Batch no:
Net contents: 5L, 10L

Distributed by:
AGPRO NZ Ltd
10 Polaris Place
East Tamaki
P O Box 58-963
Botany
Auckland 2163
Ph 09 273 3456
Fax 09 273 3457
www.agpro.co.nz

HSNO CLASSIFICATION:

6.1E, 6.4A, 6.8B, 6.9A, 9.1A, 9.2A, 9.3B



WARNING

Warning. May be harmful if swallowed, inhaled or absorbed through skin.

Warning. May cause eye irritation.

Warning. May cause reproductive/development damage from repeated oral exposure.

Danger. Presumed to cause organ damage from repeated oral exposure at high doses.

ECOTOXICITY

Warning. Very toxic to aquatic organisms.

Warning. Very toxic to the soil environment.

Harmful to terrestrial vertebrates.

PRECAUTIONS

When mixing or applying, wear protective clothing, gloves and goggles. Do not eat, drink or smoke whilst using. Wash hands and face before meals and after work. Wash protective clothing after work. Avoid skin and eye contact.

STORAGE: Store in original container tightly closed and in a locked dry, cool, well ventilated area away from foodstuffs. Under appropriate storage, the product shows no significant degradation within 2 years from the date of manufacture. Contact the supplier if product is older than 2 years. As a class 9 substance with ecotoxicity classification, storage of Liron herbicide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that the NZ standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary provision of the HSNO emergency management regulations.

EQUIPMENT: Apply using accurately calibrated and maintained equipment in accordance with the NZ Standard for the Management of Agrichemicals (NZ8409)

SPILLAGE: Wear the above mentioned protective clothing when dealing with spills. Contain the spill and recover spilt product with sawdust or other inert absorbent material then place recovered material into properly labelled drum. Deal with spillages immediately and prevent contamination of watercourses, drains, streams, ponds. If this is likely to occur, warn the local authorities immediately.

DISPOSAL: Triple rinse container and add rinsate to spray tank. Burn rinsed container if circumstances, especially wind direction, are suitable. Otherwise crush or puncture and bury in suitable landfill or if appropriate, recycle. Avoid contamination of waterways with product or empty container.

FIRST AID

If swallowed, wash out mouth with water. Do not induce vomiting. Give a glass of water. Transport patient to doctor or hospital as quickly as possible.

If skin contact occurs, remove contaminated clothing and flush skin with soap and running water immediately. Wash contaminated clothing before re-use. If eye contact occurs, wash out eyes with running water immediately. If inhaled, move person to fresh air immediately. Maintain half upright position if breathing is difficult. Carry out artificial respiration if necessary. Contact National Poisons and Hazardous Chemicals Information Centre ph 0800 764 766 (0800 POISON) or a doctor for medical advice.

RESISTANCE MANAGEMENT

Liron is a Group C2 herbicide that has the inhibition of photosynthesis at photosystem II mode of action.

Naturally occurring weed biotypes resistant to Group C2 herbicides can become more prevalent after many

years of continuous use. To delay the onset of, or control resistant weeds, use in rotation with herbicides with a different mode of action.

It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standards.

GENERAL

Beware - Apply this product carefully. Spray drift may cause serious damage to other desirable plants. A strategy to minimise spray drift should be employed at all times when applying spray near aquatic environments.

Liron has both contact and residual activity and controls a wide range of annual broad-leafed and grass weeds.

MIXING

Shake thoroughly before use. For containers larger than 4L, roll and invert several times to ensure uniform re-suspension of the contents. Add the required quantity of Liron to a half filled spray tank the complete filling. Maintain agitation throughout filling and application.

APPLICATION

Apply Liron in a volume of 300-600 litres of water per hectare. Where two rates are recommended the higher rates apply to, either heavy soils, and soils rich in organic matter, or when weeds have more than four true leaves. The higher rates also apply to areas with a low rainfall and soils of low moisture. The greater volume of water is recommended where weeds are older and where the crop is dense.

RAINFALL

Rainfall within 6 hours of application may reduce foliar activity but a light rain after this may improve results. Under very wet conditions, crop safety may be reduced.

SOIL PERSISTENCE

Liron has moderate soil persistence but effectiveness is reduced in soils with high organic matter. Seedbeds for pre-emergence application should be free of weeds, clods, trash and be moist and firm.

CROP ROTATION

Residues resulting from the use of Liron may adversely affect susceptible crops. Do not plant crops other than those recommended for treatment on this label, for 2 – 3 months after application. Thoroughly cultivate before planting new crops to minimise soil residues.

WEEDS CONTROLLED

Susceptible	Charlock, Chickweed, Cornbind, Fathen, Nettle, Penny cress, Scarlet pimpernel, Shepherd's purse, Sow thistle and Spurrey (Yarr)
Moderately susceptible	Annual poa, Black nightshade, Chamomiles, Cleavers, Groundsel, Plantain, Redroot, Speedwell, Stinking mayweed, Vetch, Wireweed and Witchgrass.
Resistant	Californian thistle, Couch, Dandelion, Docks, Fumitory, Wild oats, Perennial weeds, Deep rooted weeds.

DIRECTIONS FOR USE

Crop	Timing	Rate	Remarks
Asparagus Established beds	Post emergence	1 – 3 L/ha	Apply before cutting commences and after the final cut. Do not apply during the cutting stage. Apply as a basal directed spray.
Leeks Transplanted	Post emergence	1 – 2L/ha	Apply after transplanting and use the higher rate where weeds are greater than 8 cm. Apply at the 2 true leaf stage.
Broad beans, Soya beans	Pre-emergence	2 – 4 L/ha	Apply within 2 – 3 days of sowing. Beans should be sown to a uniform depth of 5 cm. Do not use on light or poorly structured soils. Crop damage may occur under wet conditions.
Carrots, Parsnips	Pre-emergence	2.5L/ha	Apply 5 – 8 days after sowing but prior to crop emergence. Apply when the crop is at the first true leaf stage.
	Post emergence	1 – 2 L/ha	Apply after “moulding up” and before crop emergence.
Celery	Transplanted - Post emergence	1 – 2 L/ha	Apply after transplanting and use the higher rate where weeds are greater than 8 cm. Apply at the 2 true leaf stage.
	Direct seeded	1 – 2 L/ha	Apply after the crop has at least 2 true leaves.
Linseed	Post emergence	0.8 – 1.5 L/ha	Apply at the seedling.
Maize & sweetcorn	Pre-emergence	2 – 3 L/ha	Apply immediately after sowing. Do not cultivate after application.
Onions	Post emergence Do not use within 5 days before or after application of fungicides, insecticides, foliar fertilizers or adjuvants.	0.3 – 0.5 L/ha	Apply after the crop has 3 true leaves. Crop must have waxy leaves. Rate may be increased after 5 leaf stage.
		0.5 – 1.0 L/ha	Apply after the crop has 5 true leaves. Applications may be made up to 3 weeks before harvest.
Pipfruit, Stonefruit		2 – 4 L/ha	Use on crops that are at least 3 years old. Apply the low rate on light loam soils. Apply as a directed spray. Avoid drift and direct contact with foliage.
Potatoes	Pre-emergence	2 – 4 L/ha	Apply after “moulding up” and prior to crop emergence.

Registered to:

Shandong Rainbow International Co., Ltd
19th & 20th Floor, Hanyu Financial Centre,
Building A3-4, No. 7000 East Jingshi Road,
Jinan, China 250101

NZ Agent:

AR & JA DRYSDALE LTD
PO Box 72275
Papakura 2244
Tel: (021) 939 728

CONDITIONS OF SALE

The use of Liron being beyond the control of the suppliers, no warranty expressed or implied, beyond that cover under the Fair Trading Act is given by the suppliers regarding suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and the supplier accepts no responsibility for any consequence whatsoever resulting from the use of this product