



WARNING
HARMFUL · ECOTOXIC · TOXIC
KEEP OUT OF REACH OF CHILDREN



LANDSTAR[®]

HERBICIDE

A herbicide for the selective control of broadleaf weeds in new and established pasture, chicory, clover, lucerne and maize.

ACTIVE INGREDIENT: Contains 800 g/kg flumetsulam in the form of a Water Dispersible Granule (WG).

NET CONTENTS: 1 KG



READ THE LABEL CAREFULLY BEFORE USING LANDSTAR

Active Ingredient: Contains 800 g/kg flumetsulam in the form of a Water Dispersible Granule (WG).

HSNO CLASS: 6.3B, 9.1A, 9.2A.

TOXICITY:

HARMFUL: May cause skin irritation.

ECOTOXICITY:

VERY TOXIC TO FISH WITH LONG LASTING EFFECTS. Avoid contamination of any water supply with product or empty container.

VERY TOXIC TO THE SOIL ENVIRONMENT.

SELECTIVE HERBICIDE – VERY TOXIC TO SOME PLANT SPECIES. Beware: Spray drift hazard. Apply this product carefully. This substance may damage desirable plants. Take steps to prevent spray drift or application to non-target plants.

APPROVED HANDLER:

This product must be under the control of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.
This product must not be used for any purpose or in any manner contrary to this label unless authorised under appropriate legislation.

PRECAUTIONS:

Keep out of the reach of children.

Avoid contact with skin, eyes and inhalation of spray mist.

When handling, wear eye protection, waterproof gloves, boots and overalls.

Remove protective clothing and wash hands and face thoroughly before meals and after work.

Do not eat, drink or smoke while using.

STORAGE:

Store in the original container in a locked, dry, cool area away from foodstuffs, fertilisers and seeds.

Avoid storage at temperatures below 5°C and above 35°C.

Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals.

Stores containing 100kg of LANDSTAR require signage and secondary containment. More than 100kg requires emergency response plans.

EQUIPMENT:

Apply using well maintained and accurately calibrated equipment. Clean equipment thoroughly after use. Decontaminate equipment before use on sensitive plants.

DISPOSAL:

Dispose of product only by using according to the label directions. Alternatively dispose of safely at an approved landfill.

Triple rinse empty container and add rinseate to the spray tank.

Recycle empty container. Otherwise crush and bury empty container in a suitable landfill. Do NOT use the container for any other purpose.

Avoid contamination of any water supply with chemical or empty container.

SPILLAGE:

Wear appropriate protective clothing and prevent material from entering waterways. Contain liquid spills and absorb with inert material and place in waste container. Sweep up solids without creating dust. Dispose of waste safely in a suitable landfill.

First Aid: If swallowed, DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with running water for several minutes. If inhaled move the patient to fresh air immediately. Begin artificial respiration if breathing has stopped.

RECORD KEEPING:

Records of use as described in NZS 8409 Management of Agrichemicals must be kept if more than 3 kg of LANDSTAR is applied within 24 hours.

RESISTANT WEEDS WARNING:

LANDSTAR contains a Group B Herbicide belonging to the triazolopyrimidine sulfonamide (sulphonamide) group of chemistry with the inhibition of acetolactate synthase (ALS) mode of action. Naturally occurring biotypes resistant to sulfonamide herbicides are known to exist. These resistant weeds may dominate the population on LANDSTAR or other related herbicides are used exclusively. To minimise risks, use strictly in accordance with label instructions. For further information see www.resistance.nzpps.org.

PRODUCT INFORMATION: LANDSTAR 800 g/kg WG is a selective herbicide that will control or suppress broadleaf weeds in crops or pastures while selectivity to clovers, lucerne and chicory is preserved.

MIXING: Use the required amount of LANDSTAR to the partly filled tank with the agitation system. Complete filling before adding any spraying oil. Maintain agitation throughout mixing and agitation. When tank mixing, first add LANDSTAR followed by wettable powders or other dry flowable formulations, suspension concentrates (flowables), soluble concentrates, emulsifiable concentrates and then add spraying oil last.

COMPATIBILITY: The addition of MCPB herbicide to LANDSTAR will increase the range of broadleaf weeds controlled. LANDSTAR is also compatible with most commonly used herbicides but compatibility should be checked before mixing. Do not mix LANDSTAR with spraying oil when using with triazine herbicides on lucerne.

RAINFALL: Do not spray LANDSTAR if rain is expected within 6 hours

APPLICATION: Make sure that spray equipment is correctly calibrated. Ensure complete spray coverage for best results. Do not overspray.

WARNING: Application equipment must be decontaminated BEFORE and AFTER the application of LANDSTAR. Refer to sprayer decontamination for details.

Aerial spraying and ground boom spraying: Apply LANDSTAR in 100-300 litres of water per hectare. Use the higher water rate where weeds are dense to ensure thorough coverage of weeds.

Control Droplet Application (CDA): Do not use less than 30 litres of water per hectare using spray equipment which will produce a droplet size of 250-300 microns. Trial results indicate that CDA application may result in less effective weed control than conventional boom spraying.

LANDSTAR must not be applied into, onto or over water.

DECONTAMINATION (Cleaning Spray Equipment):

Before applying LANDSTAR: If the equipment has been used to apply sulfonyl urea herbicides and if a spraying oil is to be used, then the equipment must be decontaminated according to the instructions on the sulfonyl urea product label. Small amounts of sulfonyl urea from the inside surfaces of the spraying equipment may severely affect the crop being treated.

After applying LANDSTAR: Drain completely and flush the system twice with clean water immediately after spraying. Discard rinse water on land already sprayed or on waste land away from desirable plants and water sources. If a susceptible crop (refer to crop rotation) is to be sprayed next, additional cleaning with detergent is recommended as follows:

1. Drain tank, then flush tank, booms and hoses with clean water.
2. Quarter fill the tank with clean water and add an alkali detergent to make a 0.5% solution (e.g. a low foam laundry detergent added of 500g/100 litres of water). Flush through the boom and hoses and allow to flow. Allow agitation engaged for 15 minutes.
3. Remove fillers and nozzles and clean them separately.
4. Drain the whole system.
5. Finally, rinse the tank thoroughly with clean water, flush thoroughly through hoses and booms and allow to drain.

DIRECTIONS FOR USE:

Apply LANDSTAR to actively growing weeds. Do not apply in cold wet conditions. Always apply LANDSTAR in a mixture with a suitable spraying oil unless it is specifically recommended not to do so.

LANDSTAR Dosage rate in g/ha	Weeds controlled	Critical comments
30	Chickweed, surrery, wild radish, hedge mustard	Apply before 4 th leaf
	Amaranthus (redroot), cleavers, black nightshade, fathead, shepherds purse, mallow.	Apply before 4 th leaf
50	Annual buttercup, creeping yellow cress, yellow groundell.	Apply before flowering

Note: A maximum of 65g/ha of LANDSTAR may be applied once per year.

Mature Pasture: LANDSTAR may be applied in either spring or autumn for buttercup control. Repeat spring treatments for two successive seasons will maximise control of giant buttercup.

Application Timing:

CROP	CROP GROWTH STAGE
New pasture	Use after clover has developed two trifoliolate leaves
New and established white clover seed crops	Apply after the emergence of the 4th trifoliolate leaf and before stolon elongation
New and established red clover seed crops and subterranean clover	Apply after the emergence of the 6th trifoliolate leaf and before stolon elongation
Established lucerne	Apply before flowering
Maize	Apply at the 4 th leaf (90mm plant height) stage
New and established chicory	Apply after the emergence of the 4 th leaf

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

Withholding Periods: Do not graze crops or treated pasture for 14 days after treatment. Do not plant susceptible crops (see crop rotation below) for three months after treatment.

Crop Rotation: Do not plant susceptible crops for three months after application with LANDSTAR.

Susceptible crops include all brassica species, sunflowers, lupins and beans. Do not allow spray to drift onto susceptible crops or land to be planted with susceptible crops.

Animal Safety: Poisonous plants including but not limited to giant buttercup and black nightshade may become more palatable after spraying. If concerned that stock health may be affected, stock should be kept away from the treated area until plants have died down.

CONDITIONS OF SALE: The use of LANDSTAR being beyond the control of the suppliers, no warranty expressed or implied is given by Global Agrichem Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not, and Global Agrichem Ltd accept no responsibility whatsoever resulting from the use of this product.

Registered pursuant to the ACVM Act 1997, No P9188. See: www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act 1996, approval code HSRI10114.

See: www.epa.govt.nz for controls applying to the substance.

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GLOBAL AGRICHEM

Batch No: Date of Manufacture:

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