



Dow AgroSciences

Kerb™ 500F

Herbicide

Selective herbicide for use in lucerne, lettuce, clover seed crops, cotula lawns and bowling greens

READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING

ACTIVE INGREDIENT:

Contains 500 g/L propyzamide in the form of a suspension concentrate

GROUP **K1** HERBICIDE

**HARMFUL - Keep out of reach of children
ECOTOXIC**



NET CONTENTS: 5 and 20 L

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

HAZARD CLASSIFICATION: 6.4A, 6.7B, 6.9B, 9.1A, 9.2A

APPROVED HANDLER

This product must be under the personal control of an approved handler when:

- a) applied in a wide dispersive manner; or
- b) used by a commercial contractor.

RECORD KEEPING

Records of use, as described in relevant HSNO regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3L is applied or discharged within 24 hours in a place where members of the public may be present or where the substance may enter air or water and leave the place.

TOXICITY

May cause organ damage from repeated oral exposure at high doses and is suspected of causing cancer. Do not eat, drink or smoke while using. Remove protective clothing immediately after handling this product and wash hands and face before meals and after work. May cause eye irritation. Avoid contact with the eyes.

ECOTOXICITY

Very toxic to aquatic organisms. Do not contaminate an aquatic environment with chemical or empty container. Do not spray over or allow drift over, an aquatic environment. Do not apply into, onto or over water.

Selective herbicide - very toxic to some plant species. Some plants may be damaged or killed by contact with this product. Do not allow drift outside the target area to occur. Decontaminate equipment before use on sensitive plants (see Application Methods section).

HANDLING PRECAUTIONS

EQUIPMENT

Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the Disposal instructions below.

STORAGE

Store in the original container tightly closed and in a locked, dry, cool, well-ventilated area, well away from foodstuffs and stockfeed. Avoid contamination of seeds, fertilisers and other pesticides.

Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Stores containing 100L or more of Kerb™ 500F require bunding and are subject to signage. See the Hazardous Substances Emergency Management and Identification Regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409) for further information.

PERSONAL PROTECTION

When mixing or applying wear chemical resistant gloves made of materials such as polyvinyl chloride or neoprene, chemical resistant boots, cotton overalls buttoned to the neck and wrist and a washable hat. Avoid inhaling spray mist. Avoid contact with the eyes.

SPILLS

Do not touch or walk through spilled material. Wear the protective equipment recommended above. Stop leak when safe to do so. Dam area and prevent entry into waterways, and drains. **Small spills/leaks:** Absorb with proprietary absorbent suitable for chemical spills or inert material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the SDS, product label or Dow AgroSciences regarding disposal. **Large spills/leaks:** Dam the area off and report them to Dow AgroSciences Emergency Services at 0800 844 455.

DISPOSAL

Triple rinse empty containers and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues (liquid and dry) and have an intact legible label should be taken to an Agrecovery collection site. Otherwise crush and bury in a suitably approved landfill. Do not burn empty containers.

Dispose of this product only by using according to the label, via Agrecovery (visit www.agrecovery.co.nz or call 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical acceptable for disposal), or at an approved landfill. Do not burn.

Dispose of equipment cleaning water onto ground away from susceptible crops and plants.

Do not dispose of this product, spray mix or equipment cleaning water down drains or sewers.

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 splashed in eyes, wash out immediately with water. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

TRANSPORT

Do not carry more than 1 L on a passenger service vehicle. Quantities of 1 L or less carried on a passenger service vehicle must be contained within sealed packaging.

SAFETY DATA SHEET

A Safety Data Sheet is available from Dow AgroSciences on request. Call Customer Service Toll Free on 0800 803 939 or visit www.dowagrosciences.co.nz.

NOTICE

Important: You **must** read the warning and conditions given on this label. If they are not acceptable, or if you are in doubt as to the proper handling of this product (including its transport, storage, use, disposal, and requirements for approved handlers [if applicable]) then return the unopened product to the supplier at once.

Warning: This product is subject to controls and could be hazardous if handled incorrectly. The **user is responsible** for ensuring that the handling of this product is in accordance with the law (including the *Hazardous Substances and New Organisms Act 1996* and the *Agricultural Compounds and Veterinary Medicines Act 1997*) and with the directions provided. The Registrant declines all liability (whether in contract, tort (including but not limited to negligence), or otherwise) to the maximum extent permitted by law in relation to the handling of this product in a manner which is contrary to the directions given or to any applicable Acts, Regulations or Guidelines.

Further information regarding the applicable Acts, Regulations and Guidelines for the proper handling of this product may be obtained by contacting EPA New Zealand (www.epa.govt.nz) or the Ministry for Primary Industries (MPI) (www.foodsafety.govt.nz).

This product is warranted to contain the specified active ingredients within accepted analytical tolerance when packed.



Registered to: Dow AgroSciences (NZ) Ltd 89 Paritutu Road Private Bag 2017 New Plymouth 4342 Telephone 0800 803 939 www.dowagrosciences.co.nz	EMERGENCY RESPONSE (All hours) Ring from anywhere in New Zealand 0800 844 455 Or Globally +64 6 751 2407	IN A TRANSPORT EMERGENCY DIAL 111 FOR POLICE OR FIRE
---	---	---

Registered pursuant to the ACVM Act 1997, No P3843.

See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR100618

See www.epa.govt.nz for approval controls.

 	Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propyzamide) Marine pollutant
Class: 9	UN Number: 3082
Packing Group: III	HAZCHEM: 2X

Date of Manufacture:

Batch No.

Barcode

APPLICATION METHODS

Kerb 500F should be applied using spray equipment to give good soil coverage. Use 200-300 L/ha water unless otherwise stated in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409) as a medium to coarse spray quality. To minimise off target drift it is recommended to spray when wind speed are between 3 and 20 km/hr and avoid atmospheric inversion conditions.

Apply Kerb 500F in cool conditions (below 13°C) in the period May - August.

Cleaning spray equipment:

Rinsing

After using Kerb 500F:

- Empty the spray tank completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. Drain spray unit and clean any filters in the tank, pump, lines, hoses and nozzles.
- After cleaning the spray unit as above, quarter fill with clean water and circulate the water through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.
- Discard rinse water on land already sprayed or on wasteland away from desirable plants and water sources.

Decontamination

Before using equipment with other products sensitive to Kerb 500F:

- Wash the tank and rinse the system as above, then quarter fill the tank and add a standard alkali based laundry detergent at 500g (or mL)/100L and circulate through the system for at least 15 minutes. Do not use chlorine based cleaners.
- Drain the whole system. Remove filters and nozzles and clean them separately.
- Finally, flush the system with clean water and allow to drain.

CROP ROTATION:

Residues resulting from the use of Kerb 500F may adversely affect certain susceptible crops. Do not plant crops, other than those recommended for treatment, within 2-3 months of applying Kerb 500F. To minimise soil residue effects, treated areas should be ploughed and thoroughly cultivated before sowing following crops. Generally Kerb 500F residues will have diminished to levels safe to following crops of grasses or cereals within 8-9 months.

WITHHOLDING PERIODS

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

Lettuce: Do not apply within 40 days of harvest.

RESISTANCE MANAGEMENT

GROUP	K1	HERBICIDE
--------------	-----------	------------------

Kerb 500F is a benzamide herbicide (Group K1). Some naturally occurring individual weeds may become resistant when excessive use of the same herbicide occurs. To maximize the effectiveness of herbicides, products containing alternate modes of action should be used in the spray program. Consult <http://resistance.nzpps.org/> for alternate modes of action and the details of resistance management strategies (if any) for the crops listed on the label.

DIRECTIONS FOR USE

Kerb 500F is a selective herbicide recommended for the control of grass weeds in lucerne, lettuce and clover seed crops. It can also be used for the control of Barley Grass and other annual grasses in fence lines, headlands, pasture perimeters, stock camps and waste areas.

Kerb 500F is most active in coarse to medium textured soils of low organic matter and is relatively inactive in peat or mineral soils high in organic matter. The herbicidal activity of Kerb 500F is through root absorption and for best results applications must be made when the soil is moist and rain imminent, or during rainfall. Kerb 500F should be applied in cool conditions (below 13°C) in the period May-August. Pasture or lucerne should be short and closely grazed at the time of application. For best results apply Kerb 500F to a trash free soil surface.

Kerb 500F is slow-acting. Susceptible plants may take 3-6 weeks before showing any reaction to treatment. Weeds resistant to Kerb 500F include Paspalum, Indian Doab, Kikuyu Grass and most members of the family Compositae (Asteraceae) (e.g. Thistle and Yarrow).

SHAKE CONTAINER WELL BEFORE USE

Situation	Weeds	Rate	Comments
Cotula Lawns and Bowling Greens	Annual Poa and other annual grasses	10 mL/100 m ² in 7 L water (140 mL per standard bowling green of 36 x 36 m, in 100 L of water).	Apply in the period May - August.
White Clover seed crops	Grasses and suppression of Sorrell	1.5 – 2.5 L/ha	Apply Kerb 500F during June - August. The presence of surface trash such as cereal stubble can reduce the penetration of Kerb 500F into the soil. In such cases it is recommended that application be made while rain is falling. The removal of competing grasses including Yorkshire Fog, Soft Brome, Annual Poa, Rough

Situation	Weeds	Rate	Comments
			Stalked Meadow Grass, Barren Brome, Vulpia Hair Grass and Sweet Vernal will stimulate White Clover growth and increase seed production.
Established Lucerne	Annual grasses including Barley Grass, Soft Brome, Vulpia Hair Grass and Annual Poa	1.0 L/ha	Apply Kerb 500F during the period May-August.
	Sorrel and perennial grasses such as Kentucky Bluegrass and Browntop	2.5 L/ha	Apply Kerb 500F in the period May-June.
Seedling Lucerne	Germinating grasses and broadleaf weeds including Ryegrass, Annual Poa, Soft Brome, Spurrey, Chickweed and Sorrel Suppression of perennial weeds growing from roots and rhizomes such as Couch, Browntop and overwintering Sorrel	1.5 - 2.0 L/ha	Apply Kerb 500F within 3 days of drilling. If Sorrel from roots, Couch or Browntop are a problem increase the Kerb™ 500F rate to 2.5-3.0L/ha.
Fence lines, headlands, stock camps and waste areas	Barley Grass	1.0 - 1.5 L/ha	Apply Kerb 500F in the period June-August. Use the low rate on closely grazed areas. Under these conditions Kerb 500F will control seedling Barley Grass and any seedlings that germinate 6-8 weeks after spraying.
Lettuce	For the control of annual grasses and broadleaf	3.0 L/ha	Apply Kerb 500F in the period May-August. Applications should be made just before or after sowing prior to weed emergence. Lettuce is also

Situation	Weeds	Rate	Comments
	weeds		tolerant to post emergence treatment and applications may be made before or after thinning or transplanting, but should be made prior to weed germination if possible and no later than the seed leaf stage. Do not make more than one application of Kerb 500F to each crop of lettuce.

SPECIMEN LABEL