

orion AGRISCIENCE



HARMFUL | ECOTOXIC
KEEP OUT OF REACH OF CHILDREN

Thistle Killlem™ Ultra

HERBICIDE

A broadleaf herbicide for control of most species of thistles, buttercup and many common pasture weeds in PASTURE and NON-CROP situations.

Active Ingredient:

680 g/litre 2,4-D as the ethylhexyl ester in the form of an emulsifiable concentrate.



20 Litres



PLEASE READ THE LABEL COMPLETELY BEFORE USE

HAZARD CLASSIFICATIONS: 6.1D, 6.3B, 6.5B, 6.9A, 9.1A, 9.2A, 9.3C

WARNING: TOXIC, ECOTOXIC

May be harmful if swallowed, inhaled or absorbed through the skin. May cause mild skin irritation. May cause sensitisation from prolonged skin contact. May cause organ damage from repeated ingestion at high doses. Very toxic to aquatic organisms and to some plant species. Harmful to terrestrial vertebrates.

PRECAUTIONS

APPROVED HANDLER: This product must be under the control of an approved handler during use.

STORAGE: Keep out of reach of children. Store in the original, tightly closed container, in a cool, well ventilated and secure area away from feed or foodstuffs. Storage of certain quantities of this product trigger specific storage requirements (Refer to Safety Note). When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of product that is older than this.

PERSONAL PROTECTION: Avoid contact with eyes and skin. Avoid inhalation of vapour or spray mist. When mixing or applying, wear overalls, boots, gloves and eye protection. Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work.

USE: Apply with well maintained and calibrated spray equipment.

DISPOSAL: Dispose of this product only by using in accordance with this label, or at a suitable landfill. Do not burn. Triple rinse container and add rinsate to the spray tank. Dispose of container to a suitable landfill or agricultural recycling scheme. Do not burn. Do not use container for any other purpose.

ENVIRONMENTAL: Use this product carefully. Do not contaminate aquatic environments with product, spray drift or empty container. Spray drift or equipment contamination may cause serious damage to desirable plants and susceptible crops such as vegetables, flowers, fruit trees, ornamental shrubs, grapes and tomatoes. Do not use the same equipment to apply other chemicals to susceptible crops unless decontaminated completely. Do not allow spray drift outside the target area to occur. Application to drains and ditches must only be made when these waterways are dry and at least one month is allowed to elapse before the channels are used for carrying water. Check your regional council rules for specific requirements.

First Aid

If swallowed do not induce vomiting. If splashed in eyes, wash out immediately with running water for several minutes. If skin or hair contact occurs, remove contaminated clothing and wash with soap and running water. If inhaled, immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Call the National Poisons Centre **0800 POISON (0800 764 766)** (24 hrs) or a doctor immediately for advice.

Emergency Response

In a transport emergency call **111, Police or Fire Brigade**. For specialist advice in an emergency only, call **0800 CHEMCALL (0800 243 6225)** (24 hrs).

Spillage

Exclude non-essential people from the area. Wear protective clothing and prevent material from entering waterways. Absorb spill with inert material such as soil, sand, etc, and place in a waste container. Wash area with water and detergent, and absorb with further inert material. Dispose of safely to a suitable landfill.

Safety Data Sheet

Additional information is provided in the safety data sheet. Freephone **0800**

ORIONAS (0800 674 6627) or visit www.orionagriscience.co.nz

WARRANTY

This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

Registered pursuant to the ACVM Act 1997, No. P7765

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

Approved pursuant to the HSN0 Act 1996, No. HSR000962

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

TMKWI COVER, PQ200, and THISTLE KILLEM are Trade Marks of Orion AgriScience Ltd.

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1021

Batch No:

Date of manufacture:



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GENERAL INFORMATION

Thistle Killem Ultra is a broadleaf herbicide for control of most species of thistles, buttercup and many common pasture weeds in pasture and non-crop situations. Best results are obtained when weeds are in the seedling stage of growth and are actively growing.

Note: Thistle Killem Ultra is damaging to all clovers, particularly red, subterranean and suckling clover. To minimise damage, graze pasture to reduce clover leaf and to expose target weeds, and leave for one week to allow weeds to recover before spraying.

APPLICATION METHODS

Boom Spraying: Use 100 - 200 litres of water per hectare. Use 200 - 500 litres of water per hectare for hard to kill weeds.

Knapsack Spraying: For annual weeds use 50ml per 15 litres of water. For perennial weeds use 90ml per 15 litres of water.

Spot Spraying: Use 500ml per 100 litres of water and ensure a thorough coverage of the plant.

Aerial Spraying: Use 30 - 60 litres of water per hectare on pasture.

MIXING

Mix the required quantity in the spray tank partly filled with water, and maintain agitation through filling and spraying.

COMPATIBILITY

Thistle Killem Ultra is compatible with most commonly used herbicides.

RAINFALL

Do not spray if rain is expected within 3 hours of spraying.

DRIFT

The addition of a suitable drift control agent such as Kiwi Cover™ is recommended to reduce spray drift onto non-target species

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.

Poisonous plants may become more palatable after spraying, and livestock should be kept out until plants have died down. For animal safety reasons, do not graze treated pasture for 2 weeks after application.

RESISTANCE MANAGEMENT

GROUP	O1	HERBICIDE
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Thistle Killem Ultra contains 2,4-D, a group O1 herbicide belonging to the phenoxy chemical family. Some naturally occurring weeds may become resistant when excessive use of the same herbicide occurs. To prevent or delay the development of resistance, use in tank mixes and/or rotate use with herbicides with a different mode of action. Consult <http://resistance.nzpps.org/index.php> for alternative modes of action and details of resistance management strategies (if any) for the crops listed on the label.



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DIRECTIONS FOR USE

Recommendations for pasture and non-crop situations:

Weed	Rate per Hectare	Critical Comments
Alligator weed, alseed, Apple of Peru, Australian flax, bachelors button, Bathurst bur, beggars ticks, bitter cress, black nightshade, buttercups, Californian poppy, Canadian fleabane, Cape tulip, castor oil plant, charlock, chicory, clovers, combind, cudweed, doves foot, fathen, field cress, groundsel, hawkbit, hawkbeard, hemp nettle, horehound, marsh cress, Mexican devil, mintweed, monkey musk, mouse-ear chickweed, ontongue, penny cress, pipiriri, poroporo, red dead-nettle, selfheal, shepherds purse, tansy, teasel, thistles (sow, Scotch, star, welted), twin cress, vetch, wart cress, white mustard, wild carrot, wild mustard, wild parsnip, wild radish, wineberry	1.5 – 3 litres	Use the lower rate for seedlings and the higher rate for plants past this growth stage. Buttercups and thistles may be better controlled using Orion MCPA 750.
Seedlings only: Cape weed, cut-leaved geranium, daisies, docks, fumitory, inkweed, lupin, Onehunga weed, spurrey, storksbill, tutu, vipers bugloss	1.5 – 3 litres	These weeds will only be controlled in the seedling stage of growth. Plants should be actively growing and free from stress.
Annual buttercups, bur meddick, catsear, cresses, dandelion, hedge mustard, hemlock, redroot and Scotch thistle	0.75 – 1.5 litres	Use the low rate on seedlings only.
Burdock, Californian thistle, creeping mallow, fennel, fireweed, foxglove, hoary cress, nettles, wild portulaca and willow weed	2 – 3 litres	Spray when plants are young and actively growing. The addition of a surfactant is required when spraying foxglove.
Field bindweed, greater bindweed and Californian thistle	2 – 3 litres	Spray when plants are young and actively growing. Repeat applications are needed for control.
Nodding thistle	1.5 litres	For small rosette with a root crown less than 2 cm in diameter.
Parsley dropwort	2 litres	Rosette with a root crown of 2 – 4 cm in diameter. Plants with a root crown greater than 4 cm are not well controlled.
Variegated thistle	1.5 – 2 litres	Spray when plants are actively growing.
Winged thistle	1.5 litres	Seedlings only.
	2 litres	Rosettes less than 15 cm in diameter.
	1.5 litres	Seedlings only.
	2 litres	Rosette prior to flower stalk emergence.

Treatment of Specific Weeds:

Weed	Method	Rates	Critical Comments
Australian sedge, rushes (without pith)	Aerial and Boom	22 litres plus 11 litres PQ 200™ in 500 litres water	Use a surfactant. Oversow treated area. Apply between November and April.
	Spot spraying	530ml plus 125ml PQ 200 in 100 litres water.	Use a surfactant. Apply between November and April.
Cape tulip, goats rue seedlings	Boom	3 – 6 litres per hectare in 300 - 500 litres water	
Ragwort	Boom	1.5 – 3 litres per hectare in 200 - 300 litres water	Thistle Killem Ultra will control seedlings and many plants up to the rosette stage. Regrowth will not be controlled even with repeat applications.
Rushes (containing pith)	Boom	6 litres per hectare in 200 litres water	Mow rushes and spray when regrowth is 30 - 40cm in height.
	Spot spraying	500ml per 100 litres water	Use a surfactant. Best results when spraying in Spring.
Spanish Heath	Boom	1.5 litres per hectare in 200 litres water	Spray during active Spring growth.
	Spot Spraying	500ml in 100 litres water	Ensure spray gives thorough coverage.
Willows, poplars	Aerial	6 litres per hectare in 200 - 400 litres water	Spray in late Spring to fully leaved trees. Two applications 12 months apart may be necessary.
	Hand Gun	350ml per 100 litres water	
	Stump swabbing, Frilling	250ml per 10 litres diesel or waste oil	Apply to freshly cut surface or frill immediately with a paint brush or knapsack sprayer.

