

DANGER

**KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE
OPENING OR USING**



iixen[®]

HERBICIDE

Contains: 200g/litre glufosinate-ammonium plus 20g/litre oxyfluorfen in the form of a suspension concentrate

**For weed control in orchards, vineyards
and non crop land**

210309

Approved pursuant to the HSNO Act 1996, No: HSR100515. See www.epa.govt.nz for approval conditions.

Registered pursuant to the ACVM Act 1997, No. P008405. See www.foodsafety.co.nz for registration conditions.

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Lonza

PLEASE READ THE ENTIRE LABEL BEFORE USE. SHAKE OR STIR WELL BEFORE USE.



HSNO CLASSIFICATION: 6.1E, 6.3A, 6.4A, 6.8B, 6.9A, 9.1C, 9.2A, 9.3C

QUALIFICATION REQUIREMENTS: Persons mixing, loading, applying, or otherwise handling Vixen must meet qualification requirements set out in the EPA Hazardous Substances (Hazardous Property Controls) Notice 2017.

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept whenever Vixen is used.

TOXIC, CORROSIVE: May be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

PERSONAL PROTECTION: Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke while using.

ECOTOXIC: Harmful to aquatic life with long lasting effects. Avoid contamination of any water supply with product or empty container. Very toxic to the soil environment. Harmful to terrestrial vertebrates.

STORAGE: Store locked up. Store in original container, tightly closed and in a dry, cool area away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals.

DISPOSAL: Triple rinse empty container placing rinse water in the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot or crush and bury in an approved landfill. Dispose of product only by using according to this label, or at an approved landfill or disposal facility.

SPILLAGE: Wear appropriate protective clothing. Exclude all bystanders from the vicinity of the spill, and prevent material from entering waterways. Contain liquid spills and absorb with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

SAFETY DATA SHEET: Additional information is listed in the Safety Data Sheet available from Lonza NZ Limited or www.lonza.co.nz

HSNO ADDITIONAL CONTROLS: Vixen shall be applied at a maximum application rate of 8L Vixen/ha with a maximum application frequency of 2 applications per year. Vixen shall be applied via ground-based materials only.

MODE OF ACTION: Vixen is primarily a contact herbicide which is taken into the plant via the foliage and green stems but is not translocated. There is no action via the roots and no soil residual effect at normal application rates under crops. Optimum activity is obtained under warm conditions (>10 °C) favourable for active plant growth. Sunlight and warm temperatures accelerate the rate of action. Early symptoms of necrotic yellowing generally occurs within 3 - 7 days and necrosis progresses to wilting and death within 1 - 2 weeks on susceptible plants.

DIRECTIONS FOR USE

Apply to weeds in active growth. Do not apply in wet conditions.

WEEDS CONTROLLED	RATE/HA	CRITICAL COMMENTS
Shepherds purse, scrambling speedwell, summer grass, black nightshade.	2 - 4 litres	The lower rates indicated are appropriate when weeds are young, succulent and actively growing, or when the weed population is sparse and good coverage and penetration are possible. Use the higher rates when weeds are mature or the population is dense. Vixen will not completely control mature weeds with well developed tap roots or underground storage organs and some regrowth may occur
Annual Poa, asparagus seedlings, beaked hawksbeard, calandrinia, chickweed, cleavers, clover seedlings, cornbind, daisy, dandelion, mouse-ear chickweed, musky storksbill, redroot, rough stalked meadow grass, scotch thistle, sow thistle, staggerweed, spurrey, stinking mayweed, subterranean clover, wild turnip, willow weed and wireweed.	3 - 5 litres	
Fathen, nettles, clovers, galinsoga, purslane, dove's foot, soft brome.	4 - 6 litres	* Hairy buttercup and some ryegrass strains are resistant to Vixen.
Bristle grass, bur medic, catsear, chewings fescue, cut leaved geranium, docks, fleabane, parsley piert, prairie grass, ryegrasses*, sheeps sorrel, storksbill, strawberry, twin cress and Yorkshire fog.	5 - 7.5 litres	
Mallows, field pansy, willow herb	6 - 8 litres	
Broom, buttercups*, couch, crowfoot grass, gorse, hawksbeard, kikuyu grass, paspalum, tall fescue, wild strawberry, yarrow.	7.5 - 8 litres	
Bracken, rape, Indian doab, meadow rice grass, plantains, rushes, sedges.	8 litres plus	

USE SITUATIONS

To maximise crop safety observe the following application guidelines

SITUATION	RATE/HA	DIRECTIONS
Orchards, vineyards, citrus, grapes, kiwifruit, pipfruit and stone fruit.	Use a rate appropriate to the weeds present.	Apply in spring and summer when the majority of weeds have germinated. Residual herbicides may be applied in mixture for longer term weed control. Use as a directed spray and avoid contact with foliage and immature bark of desirable plants.
Non-selective weed control Non-crop land	6 - 8 litres in 300-500 litres of water/ha or 100ml/10 litre knapsack	Apply as a drenching spray to just before run-off. Residual herbicides may be added for long term weed control.

MIXING: Shake or stir well before using. Pour the correct amount of Vixen into the partly filled tank, and while agitating add the remainder of the water. Maintain agitation during spraying and any stoppages. Only mix sufficient spray for immediate use and avoid storing.

Additional surfactants are not normally required when using Vixen according to the label instructions. **COMPATIBILITY:** Vixen is compatible with likely tank mixture herbicides such as Terb 500®. Refer to the tank mixture herbicide product labels for further instructions.

APPLICATION: It is essential to apply Vixen with equipment capable of achieving complete coverage of target plants. Use sufficient pressure and water to penetrate the weed mass. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

Avoid contact with green parts of desirable plants including immature bark as damage may occur. The herbicide effect may be reduced in temperatures below 10 °C. Do not mow or cultivate after treatment until weeds begin to die off. It is an offence under the ACVM Act to use this product in a manner that results in damage outside the treated property.

SPRAYER CLEAN-UP: To avoid injury to subsequently sprayed sensitive crops, flush sprayer with several rinses of clean water after use.

RAINFALL: Vixen requires 6 hours drying to be fully effective but is less prone to wash off during showery weather than other herbicides.

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.

WITHHOLDING PERIOD: 28 days all crops.

RESISTANCE MANAGEMENT: **GROUP H+E HERBICIDE** Vixen contains a phosphinic acid herbicide that inhibits glutamine synthetase plus a diphenyl ether herbicide that inhibits protoporphyrinogen oxidase. Certain weed biotypes resistant to Vixen and related group H herbicides could exist or develop due to natural genetic variation. To minimise the risk of any resistant plants dominating the weed population use strictly in accordance with label instructions. Do not use group H herbicides exclusively and follow sound resistance management strategies. For further information see www.resistance.nzpps.org

NOTICE TO BUYER: The manufacturer and vendors of Vixen warrant the formulation to contain the specified active ingredient within accepted tolerance but make no warranty of any kind on the uses of material and accept no responsibility, whether the material is used in accordance with the label directions or not.

REGISTERED TO: Lonza NZ Limited, Hudson Rd, New Plymouth, New Zealand. Tel: 06 755-9234 Fax: 06 755-1174
EMERGENCY PHONE: 0800 CHEMCALL 0800 243 622