HARMFUL, ECOTOXIC
KEEP OUT OF REACH OF CHILDREN

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

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

**APPROVED HANDLER:** This product must be under the control of an approved handler during use. This product must not be used for any purpose or in any manner, contrary to this label, unless authorised under appropriate legislation.

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

**DANGER:** May cause organ damage from repeated oral exposure at high doses. Tolerance may not be maintained unless adequate practices are followed.

**WARNING:** May be harmful if swallowed, inhaled or absorbed through the skin. May cause skin and eye irritation, avoid contact with skin or eyes. May cause reproductive/developmental damage from repeated oral exposure.

**FIRST AID:**If swallowed do NOT induce vomiting. For ingestion contact the National Poisons Centre POISON (0800 764 768) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush with running water. DO NOT SCRUB THE SKIN. If splashed in eyes, wash out immediately with water for at least 15 minutes. Seek medical attention.

**PERSONAL PROTECTION:** Avoid skin and eye contact and inhalation of spray mist. When mixing or applying wear waterproof gloves, eye protection, boots and overalls. Do not eat, drink or smoke while using. Wash splashes of concentrate from skin immediately. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

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

**STORAGE:** 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 and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrcyclopedia depot. Alternatively crush and bury in an approved landfill. Dispose of product only by using according to the label, or at an approved 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. Contain liquid spills and place in waste containers. When recycling, discard cap and deliver to an approved disposal facility.

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

**APPROVED HANDLER:** Vixen does not require a handler as it is sold as a product for use by agriculturists and horticulturists, and is not intended for household or garden use. However, it is important to follow the directions for use and safety precautions carefully.

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

**NATURAL BACKGROUND:** 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 CHEMCELL 0800 243 6225

**WEEDS CONTROLLED**

<table>
<thead>
<tr>
<th>Weed Type</th>
<th>Rate/HA</th>
<th>Critical Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shepards purse, scrambling speedwell, summer grass, black nightshade.</td>
<td>2 - 4 litres</td>
<td>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 have matured. Vixen will not completely control mature weeds with well developed tap roots or underground storage organs and some regrowth may occur.</td>
</tr>
<tr>
<td>Annual Poa, asparagus seedlings, beaked hawkweed, calendrinia, chickweed, cleavers, clover seedlings, cornbird, daisy, dandelion, mouse-ear chickweed, musky storksbill, redroot, rough staked meadow grass, scotch thistle, sow thistle, staggered spurrey, stinking mayweed, subterranean clover, wild turnip, willow weed and wireweed.</td>
<td>3 - 5 litres</td>
<td></td>
</tr>
<tr>
<td>Fathen, nettles, clovers, galingosa, purslane, dove’s foot, soft brome.</td>
<td>4 - 6 litres</td>
<td></td>
</tr>
<tr>
<td>Brittle grass, bur medic, catsear, chewings fescue, cut leaved geranium, docks, fleabane, parsley piet, parsley grass, ryegrasses*, sheeps sorrel, storksbill, strawberry, twin cress and Yorkshire fog.</td>
<td>5 - 7.5 litres</td>
<td></td>
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<tr>
<td>Mallows, field pansy, willow herb</td>
<td>6 - 8 litres</td>
<td></td>
</tr>
<tr>
<td>Broom, buttercups*, couch, cowfoot grass, gorse, hawkweed, kikuyu grass, paspalum, tall fescue, wild strawberry, yarrow.</td>
<td>7.5 - 8 litres</td>
<td></td>
</tr>
<tr>
<td>Bracken, rape, Indian doab, meadow rice grass, plantains, rushes, sedges.</td>
<td>8 litres plus</td>
<td></td>
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</tbody>
</table>

**USE SITUATIONS**

To maximise crop safety observe the following application guidelines:

**SITUATION**

<table>
<thead>
<tr>
<th>Weed Type</th>
<th>Rate/HA</th>
<th>Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orchards, vineyards, olives, grapes, kiwifruit, papfruit and stone fruit.</td>
<td>Use a rate appropriate to the weeds present.</td>
<td>Apply in spring and summer when the major-ity of weeds are germinating. Residual her-bicides 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.</td>
</tr>
<tr>
<td>Non-selective weed control</td>
<td>6 - 8 litres in 300-500 litres of water/ha or 100ml/10 litre knapsack</td>
<td>Apply as a drenching spray to just before run-off. Residual herbicides may be added for long term weed control.</td>
</tr>
<tr>
<td>Non-crop land</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

**APPLICATION:** It is essential to apply Vixen with equipment capable of achieving complete coverage of target weeds. 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 area.

**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.

**WITHOLDING PERIOD:** 28 days all crops

**RESISTANCE MANAGEMENT:**

**GROUP IH: HERBICIDE** Vixen contains a phosphonic 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

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**More Information:**

- [Vixen Safety Data Sheet](https://www.lonza.co.nz)
- [Vixen Product Information](https://www.lonza.co.nz)
- [Vixen Technical Information](https://www.lonza.co.nz)
- [Vixen Regulatory Information](https://www.lonza.co.nz)

Please consult the original source documents for the most accurate and up-to-date information.