

**ECOTOXIC**

**KEEP OUT OF REACH OF CHILDREN**

**Sniper™**

**INSECTICIDE**

Contains: 250g/litre diflubenzuron in the form of a suspension concentrate

**For porina and clover flea control in pasture  
and sciarid fly in mushrooms**



**READ ENTIRE LABEL BEFORE USE. SHAKE OR STIR WELL BEFORE USE****HAZARD CLASSIFICATION:** 6.4A, 6.9B, 9.1A**RECORD KEEPING:** Records of use must be kept under certain circumstances. See MSDS for details.**WARNING:** May cause eye irritation. May cause organ damage from prolonged oral exposure at high doses.**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. DO NOT scrub the skin. If splashed in eyes, wash out immediately with water for at least 15 minutes. If inhaled move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.**PERSONAL PROTECTION:** Avoid contact with skin or inhalation of spray mist. Gloves should be worn at all times. Wear eye protection when handling the concentrate. Ensure adequate ventilation when handling the concentrate. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work. Do not eat, drink or smoke while using this product.**ECOTOXIC:** Very toxic to aquatic organisms. Avoid contamination of any water supply with chemical or empty container.**STORAGE:** Store in original container, tightly closed, away from foodstuffs. Keep out of reach of children.**DISPOSAL:** Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved landfill. Dispose of product only by using according to this label, or at an approved disposal facility.**MATERIAL SAFETY DATA SHEET:** Additional information is listed in the MSDS available from Zelam Limited or www.zelam.com.

Approved pursuant to the HSNO Act 1996, No: HSR000953. See www.epa.govt.nz for approval conditions.

Registered pursuant to the ACVM Act 1997, No: P007270 See www.foodsafety.govt.nz for registration conditions.

**DIRECTIONS FOR USE**

Sniper must only be used for application to pasture or in commercial mushroom operations.

It is an offence to use this product on animals.

CROP	DISEASE	CRITICAL COMMENTS
Pasture	Porina caterpillar	Apply Sniper at 50 ml/ha, 10 -12 weeks after peak moth flight and apply while porina are at the late surface or early tunnelling stages and ideally to the caterpillars before they have grown to 20 - 25mm long. For peak moth flights in October-November, tunnels can be found in January-February. Where peak moth flights occur in January-March, tunnels appear between May-July. Ideally, sprays should be applied to short, dry, fresh pasture preferably in humid conditions following rain.
	Clover flea	Use 50 ml/ha and apply at first sign of clover flea. Applications are most effective in April to early May when nymphs emerge from resting eggs. This reduces the reproductive opportunity of subsequent winter generations.
Mushrooms	Sciarid flies	<u>Incorporation into compost:</u> Use 40 ml/m <sup>3</sup> and thoroughly mix into the compost. Handling and mixing are assisted by mixing with dry sand in the ratio of 1 part Sniper to 10 parts of sand. <u>As a drench:</u> Use 4 ml in 2.5 litres of water/m <sup>2</sup> and apply immediately after casing.

**MODE OF ACTION:** Sniper is an insect growth regulator which must be eaten by insects to be effective as there is no contact action. Once ingested it interferes with chitin deposition in the skin of the insect. An insect feeding on Sniper is unable to rupture and remove its old skin and dies when it is due to moult. Treated larvae appear to act normally until moulting. Some plant damage is possible between treatment and death as the treatment is fairly slow. The younger and smaller the larvae at treatment, the shorter the period between moults, leading to a more rapid kill.**RAINFALL:** Once dried on pasture Sniper is broken down only very slowly by rainfall or sunlight.**COMPATIBILITY:** May be tank mixed with most commonly used insecticides, herbicides and fungicides.**APPLICATION:** Calibrate equipment and apply to achieve full coverage of foliage. Apply 100 - 200 litres of water/ha. Do not use strainers finer than 300 microns. Maintain agitation during mixing and throughout spraying.**It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residues Limits of Agricultural Compounds) Food Standards.****WITHHOLDING PERIOD:** Pasture 7 days.**RESISTANCE MANAGEMENT:** **GROUP 15 INSECTICIDE** Sniper contains a benzoylurea growth regulator insecticide with the lepidopteran inhibition of chitin biosynthesis mode of action. Resistance to Sniper and related group 15 insecticides could develop from excessive use. To minimise this risk use Sniper strictly in accordance with the label instructions and follow any resistance management guidelines for any insect pests listed on this label. See www.resistance.nzpps.org for further information.**NOTICE TO BUYER:** The manufacturer and vendors of Sniper 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.