

**DANGER**

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



**CYHELLA<sup>®</sup>**

200817

## **INSECTICIDE**

**Contains:** 250g/litre lambda-cyhalothrin in the form of a capsule suspension

**For insect control in various crops, amenity turf, ornamentals and public health situations**

PLEASE READ ENTIRE LABEL BEFORE MIXING OR USE. SHAKE WELL BEFORE USE



**HSNO CLASSIFICATION: 6.1C, 6.3B, 6.4A, 6.9A, 9.1A, 9.3B, 9.4A**

**TOXIC:** Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes mild skin irritation. Causes serious eye irritation. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

**FIRST AID:** IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider. Do NOT induce vomiting. Rinse mouth. IF exposed or concerned: Call a National Poisons Centre 0800 POISON (0800 764 766). IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. 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: Remove person to fresh air and keep comfortable for breathing. Take off immediately contaminated clothing and wash it before reuse.

**PERSONAL PROTECTION:** Ensure adequate ventilation when handling the concentrate. Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke while using this product. Contaminated work clothing should not be allowed out of the workplace.

**ECOTOXIC:** Very toxic to aquatic life with long lasting effects. Avoid contamination of any water supply with product or empty container. Toxic to terrestrial vertebrates. Very toxic to terrestrial invertebrates.

**STORAGE:** Store locked up. Store in a cool dry place, avoiding temperatures above 35°C. 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 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.

**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](http://www.lonza.co.nz)

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

**RECORD KEEPING:** Records of use must be kept in accordance with the current Health and Safety at Work (Hazardous Substances) Regulations.

**TRACKING:** This is a tracked substance, the location and movement of this substance must be recorded at each stage of the products life cycle.

**GENERAL INFORMATION:** Cyhella is a fast acting stomach and contact insecticide. Cyhella is relatively stable to degradation in sunlight and hence gives extended control of insects on plant surfaces. It has short persistence in the soil.

As Cyhella is primarily a contact insecticide, thorough coverage of plants is important for optimum results.

Pollinators: When applied during non-foraging periods such as early morning or evening, application will not interfere with the activity of honey bees once the spray has dried, other than causing a short 2-3 day reduced foraging effect.

**DIRECTIONS FOR USE:** The rates suggested are for high volume spraying to run-off. For concentrate spraying, adjust dilution rate accordingly.

It is an offence to use this product on animals.

SITUATION	PEST	RATES	CRITICAL COMMENTS
Beans	Tomato fruitworm	40 ml/ha in at least 500 litres of water/ha	Apply when insects first appear and if necessary 2 to 3 weeks later.
Beans, Forage and Vegetable Brassicas, Maize, Onions, Tomatoes Sweetcorn*, Pumpkins*, Winter squash*, Fodder beet*, Sugar beet*	Cutworm	40 ml/ha in at least 300 litres of water/ha. Aerial: Use 100 to 150 litres of water/ha	Apply immediately as damage occurs, preferably in the evening as a directed spray to thoroughly cover the base of the plants and the surrounding soil.
*For use on seedlings only			
Cereals	Cereal aphid, Rose grain aphid	20 to 40 ml/ha in at least 200 litres of water/ha	Apply at first sign of aphids. Apply the lower rate when aphid pressure is low and shorter residual activity is required. A second application may be needed if aphids continue to migrate into the crop. Ensure sufficient water volume is used to give thorough crop penetration and coverage.
Citrus	Fullers rose weevil	300 ml/100 litres as a directed trunk spray	Apply sufficient spray to form a complete band around the trunk from the base to 30cm high, using up to 300 ml/trunk. Apply at monthly intervals, using directed spray equipment. Commence prior to adult weevil emergence from ground and continue over duration of pest activity, usually December to June unless otherwise ascertained by monitoring. Ensure trees are well skirted up and tree rows are free of weeds to assist in control.
Field Tomatoes	Tomato fruitworm	40 ml/ha in at least 1000 litres of water/ha	Apply at three week intervals from transplanting or thinning.
Forage & Horticultural Brassicas	Diamondback moth, White butterfly caterpillars	40 ml/ha in at least 700 litres of water/ha	Apply to seedbeds and following transplanting at two week intervals or as indicated by pest activity.
Grapes	Thrips	4 ml/100 litres	Apply at early flowering. Apply in sufficient water to achieve good coverage of flower clusters.
	Bronze beetle, Grass grub beetle	4 ml/100 litres	Apply at dusk, when beetle flights begin. Apply in sufficient water to achieve good coverage. Repeat after 14 days if flights are still continuing.
Onions	Onion thrips	40 ml/ha in at least 500 litres of water/ha	Apply at first sighting of onion thrips and repeat as necessary.
Potatoes	Potato tuber moth	40 ml/ha in at least 500 litres of water/ha	Apply at first sighting of moths then at 2 week intervals. Maintain adequate soil moisture and soil cover over developing tubers to assist prevention of tuber mining.
	Tomato/Potato Psyllid	80 to 100 ml/ha in at least 500 litres of water/ha	Apply at first sign of psyllid then at 7 to 14 day intervals. Use the closer interval and or the high rate under high pest pressure. Ensure sufficient water volume is used to give thorough crop penetration and coverage. Ensure a suitable surfactant is used.
White Clover Seed Crops	Blue-green aphid, Potato mirid, Thrips	40 ml/ha in at least 200 litres of water/ha	Apply at first flower initiation, and repeat again 10 to 14 days later if required.
Amenity Turf	Tasmanian grass grub, Sod webworm, adult Black beetle, Red legged earth mite	4 ml/100 litres or 40 ml/ha	Apply at first sign of pest infestation and repeat as necessary if pest activity continues. Good coverage is necessary to provide most effective level of control.
Ornamentals	Aphids, Caterpillars, Thrips, Bronze beetles, Grass grub beetles, Black beetles, Weevils	4 ml/100 litres water	Apply at first sign of pest infestation and repeat as necessary if pest activity continues. Good coverage is necessary to provide most effective level of control. Phytotoxicity – it is advised to pre-spray a selection of plants and observe for 7-10 days prior to treating large areas if local experience is unavailable.

**DIRECTIONS FOR USE - PUBLIC HEALTH SITUATIONS**

Domestic, commercial, public and industrial premises e.g. hospitals, food processing plants, outdoor surfaces.

**PESTS:** Ants, Carpet beetles, Cockroaches, Fleas, Flies, Silverfish, Spiders, Woodlice (slaters).

**RATE:** 20 ml per 10 litres of water.

**APPLICATION:** When spraying, sufficient diluent should be applied to wet all surfaces or to give approximately 40 ml spray per square metre. All surfaces frequented by pests should be sprayed including floors, walls and ceilings, with particular attention to areas where insects breed and hide such as cracks, crevices and warm areas surrounding equipment. Avoid spraying windows, highly polished surfaces or dark stained and painted surfaces, as visible spray deposits may remain upon drying. When treating carpets it is advisable to brush the treated area (ie back side of a broom) once spray deposits have dried, to work product into the pile where adult fleas and nymphs reside. Residual control up to 3 months may be achieved depending on the pest, the surface to be treated and the influence of climatic weathering. More regular treatment may be necessary where washing or rain removes insecticide residues and on alkaline surfaces such as plaster or unpainted surfaces.

**TOXIC TO BEES:** Spray must not contact plants in flower if they are likely to be visited by bees.

**MIXING:** Pour the measured quantity of Cyhella into a partly filled tank and agitate the spray mixture while adding the remaining water. Maintain agitation during spraying. If applying Cyhella in mixture, always add the Cyhella last.

**ADJUVANT:** Add a suitable spreader-sticker at label rates for spraying difficult to wet crops. Use caution when tank mixing with herbicides in sensitive crops. Do not use an adjuvant in public health situations.

**APPLICATION:** Cyhella may be applied through all conventional ground and aerial spray equipment, calibrated to ensure thorough coverage of the crop.

**COMPATIBILITY:** Cyhella mixes readily with water and is compatible with commonly used fungicides except strong alkaline materials such as Bordeaux mixture and lime sulphur. Cyhella may be tank mixed with Beatrix® when applied to seedling fodder beet and sugar beet.

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 PERIODS:

Beans - 3 days

Citrus - Avoid contamination of fruit

Cereals (grain) - 70 days

Cereals (Barley and wheat forage) - 28 days

Field Tomatoes - 3 days

Forage Brassicas - DO NOT allow stock to graze within 14 days of last application

Grapes - DO NOT use after capfall

Maize, Sweetcorn, Pumpkins, Winter squash, Fodder beet, Sugar beet - Seedlings only

Onions - 14 days

Potatoes - 14 days

Vegetable Brassicas - 3 days

White Clover seed crops - DO NOT allow stock to graze within 70 days of last application

**RE-ENTRY PERIODS**

Amenity Turf, Ornamentals Do not re-enter treated areas until spray has dried

Public Health Situations After Cyhella has dried, usually 4 - 6hrs after application, aerate domestic dwellings before allowing re-entry of people and pets

**RESISTANCE MANAGEMENT:** **GROUP 3 INSECTICIDE**

Cyhella contains a synthetic pyrethroid insecticide with the sodium channel modulation mode of action. Individual members of a pest population could be resistant to this and other group 3 insecticides due to natural genetic variation. To minimise the risk of these resistant pests dominating the population use Cyhella strictly in accordance with label instructions and resistance management strategies that exist for any insect pests listed on this label. Avoid using group 3 insecticides exclusively all season, and avoid unnecessary spraying. Maintain good cultural control practices. See [www.nzpps.org](http://www.nzpps.org) for more information.

**NOTICE TO BUYER:** The manufacturer and vendors of Cyhella 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, NZ Tel: 06 755-9234 Fax: 06 755-1174

**EMERGENCY PHONE:** 0800 CHEMCALL 0800 243 622

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