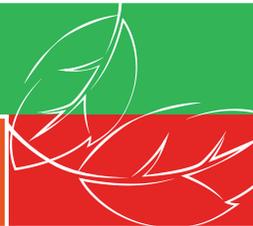


orion AGRISCIENCE



WARNING
KEEP OUT OF REACH OF CHILDREN

Cypher®

INSECTICIDE

A pyrethroid insecticide for the control of a range of insects in FRUIT, VEGETABLES and other FIELD CROPS, PASTURE, and PUBLIC HEALTH

Active Ingredient:

100 g/litre alpha-cypermethrin in the form of an emulsifiable concentrate



5 Litres



READ LABEL BEFORE USE**WARNING****KEEP OUT OF REACH OF CHILDREN**

HAZARD CLASSIFICATIONS: Flammable Liquid (Cat. 4), Acute Oral Toxicity (Cat. 4), Eye Irritation (Cat. 2), Specific Target Organ Toxicity Repeat Exposure (Cat. 2), Hazardous to the Aquatic Environment Acute (Cat. 1), Hazardous to the Aquatic Environment Chronic (Cat. 1), Hazardous to Terrestrial Vertebrates, Hazardous to Terrestrial Invertebrates

WARNING

Combustible Liquid. Harmful if swallowed. Causes serious eye irritation. May cause paraesthesia. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic organisms with long lasting effects. Harmful to terrestrial vertebrates. Harmful to terrestrial invertebrates.

PRECAUTIONS

Read carefully and follow all instructions. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with eyes and skin. Do not breathe in the vapour or spray mist. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

STORAGE

Store in the original container. Store in a well ventilated place. Keep container tightly closed. 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.

PROTECTIVE EQUIPMENT

When mixing, loading or applying, wear chemical resistant coveralls, boots and gloves, and full face respirator (organic vapour and particulate matter) incorporating a face shield.

USE

Apply with well maintained and calibrated spray equipment. Do not spray onto food or food contact surfaces. Do not use near air vents or ducts which serve food processing areas. Do not apply more than 250 mL per ha at intervals of 14 days. Application must be by a qualified loader, contractor or person.

DISPOSAL

Dispose of this product by using it in accordance with this label. Dispose of the container via AgRecovery after triple rinsing (use the rinsate for spraying). Do not burn. Do not use the container for any other purpose.

ENVIRONMENTAL

Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water. Do not apply this substance to plants if bees are foraging, or the plants are in flower or part flower, and are likely to be visited by non-target invertebrate pollinators (including bees). Collect spillage.

FIRST AID

If medical advice is needed, have product container or label at hand.

IF SWALLOWED: Rinse mouth. Get medical help.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical help.

Get medical help if you feel unwell. For advice, call the Poisons Centre on **0800 POISON (0800 764 766)** or a Doctor.

EMERGENCY RESPONSE

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

SAFETY DATA SHEET

Additional information is provided in the safety data sheet. Freephone **0800 ORIONAS (0800 674 6627)** or visit www.orionagriculture.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.

AssureQuality Assessed (Categories B and C) (Dairy factories)

NZFA Approved Type B (All animal products except dairy)

Registered pursuant to the ACVM Act 1997, No. P7409

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

Approved pursuant to the HSN0 Act 1996, No. HSR001759

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

®Cypher is a Registered Trade Mark of Orion AgriScience Ltd

™Synergy is a Trade Mark of Orion AgriScience Ltd

Registrant: Agsin Pte Ltd, Zagro Global Hub, 5 Woodlands Terrace, Singapore 738430

Distributor: Orion AgriScience Ltd, Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch 8053 0800 674 6627

www.orionagriculture.co.nz

UN 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(ALPHA CYPERMETHRIN 10%)

HAZARD CLASS 9

PACKING GROUP III

HAZCHEM CODE 3Z



Batch No:

Date of Manufacture:

CYPHER

AGRISCIENCE



READ LABEL BEFORE USE

GENERAL INFORMATION

Cypher is a fast acting pyrethroid insecticide with good residual effect. It can be used against a range of insect pests in agricultural and public health situations, including ants, aphids, cockroaches, caterpillars, flies, silverfish, spiders and thrips. As Cypher is not a systemic insecticide, good plant coverage is essential.

APPLICATION METHODS

Cypher can be applied with conventional agricultural boom spraying equipment. Apply in 300 – 700 L of water per hectare. Use a non-ionic wetting agent, such as Synergy™ Wetter Sticker on difficult to wet crops such as onions and vegetable brassicas. A knapsack sprayer is suitable for public health applications.

MIXING

Cypher mixes readily with water. To ensure mixing pour the correct amount into the partly filled tank and add the remainder of the water while agitating. Agitate thoroughly before and during spraying and before spraying after a stoppage. Do not mix with strongly alkaline products such as Bordeaux mixture or lime sulphur. Otherwise, Cypher is compatible with most commonly used pesticides.

WITHOLDING 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.

Tomatoes – 3 days. Vegetable brassicas – 3 days. Onions – 14 days. Sweetcorn – 7 days. Do not graze or feed livestock on treated maize or sweetcorn stubble within 14 days of treatment. Do not graze pasture within 7 days of treatment or cut for stockfeed within 14 days of treatment. Do not apply to stonefruit after the appearance of the first flower. Do not apply to kiwifruit after cracking of flower buds (first visible petals).

RESISTANCE MANAGEMENT

GROUP 3 INSECTICIDE

Cypher contains the synthetic pyrethroid alpha-cypermethrin. Resistance to this insecticide could develop from excessive use. To minimise this risk, use strictly in accordance with label instructions. Consult <http://resistance.nzpps.org/index.php> for alternative modes of action and details of resistance management strategies (if any) for the insect pests listed on the label.

To minimise resistance problems:

- Rotate pesticides during the season to use others (i.e., non – pyrethroid) with a different mode of action
- Avoid unnecessary spraying
- Maintain good cultural practices
- Vegetable brassicas – Use in alternation with an insecticide with a different mode of action
- Aphids – Use in alternation with an insecticide with a different mode of action
- Corn earworm / Tomato fruitworm – Do not use before 7 January
- Diamond back moth caterpillars – Refer to NZPPS website above
- Onion thrips - Do not use before late January. Use in alternation with an insecticide with a different mode of action

CYPHER



READ LABEL BEFORE USE

DIRECTIONS FOR USE

It is an offence to use this product on animals.

RATES AND TIMING OF APPLICATION

Crop	Pest	Rates	Critical comments
Maize, Sweetcorn	Army worm Corn earworm Greasy cutworm	150 – 200 mL/ha in 300 – 600 litres water/ha (ground spray) or 100 litres water/ha (aerial spray)	Army worm – Apply immediately pest appears. Use high water rate to ensure penetration to base of crop. Corn earworm – Apply at first sign of caterpillars on silks. Repeat treatment every 10 – 14 days as required. Greasy cutworm – Apply at first sign of seedling damage. Apply preferably in the early evening, and direct the spray to the plant base and surrounding soil. See Resistance Management section.
Onions	Onion thrips	150 – 200 mL/ha in 500 – 600 litres water/ha	Apply immediately pest appears. Repeat treatment every 14 days as required. See Resistance Management section.
Pasture	Tasmanian grass grub	100 – 150 mL/ha	Apply immediately pest and pasture damage appears. Use higher rate when larvae are more than 1cm long.
	Red-legged earth mite	50 mL/ha	Apply immediately damage (leaf bleaching) appears, especially on legume seedlings.
Stonefruit	Green peach aphid	20 – 25 mL/100 litres of water	Apply before flowering only. Apply immediately pest appears. Repeat treatment every 14 days as required. Use higher rate when aphid numbers are high. See Resistance Management section

Crop	Pest	Rates	Critical comments
Tomatoes (Field)	Tomato fruitworm	20 – 30 ml/100 litres of water with a minimum water rate of 600 litres/ha	Use higher rate when pest activity is high or larvae are more than 10 mm long. See Resistance Management section.
Trees and Vines (Non-fruit bearing) – Avocados, berryfruit, grapes, kiwifruit, pipfruit, tamarillos	Grass grub beetle	50 ml/100 litres/water	Apply immediately beetles appear. Repeat treatment every 7 days as required. Apply at dusk as fine spray to ensure complete foliar coverage.
Vegetable brassicas	Diamond-back moth White butterfly Tomato fruitworm Greasy cutworm	200 – 250 mL/ha in minimum of 700 litres of water/ha	Commence spraying immediately after transplanting. Repeat treatment at 14 day intervals. See Resistance Management section.
Buildings – domestic, commercial, industrial, public, etc	Ants, cockroaches, flies, silverfish, spiders	5 – 10 mL/litre of water. Apply 1 litre of spray to 20 sq. metres	Use the higher rate for a longer residual. Spray onto surfaces and into cracks and crevices which may harbour insects.

Unless expressed as a rate per hectare, the above rates are for high volume spraying to the point of run off. Do not apply during rain or if rain is expected within 6 hours of application.