



A synthetic pyrethroid insecticide for use on cabbages, cauliflower, tomatoes, maize, sweetcorn, and for the control of grass grub beetles, industrial pests (including common household borer), flies on cattle and horses, and lice and ticks on cattle.

Active Ingredient: Contains 200 g/litre cypermethrin in the form of an emulsifiable concentrate. Also contains 650 g/litre xylene.

Chemical Group: Synthetic pyrethroid.

- **Multi-purpose insecticide**
- **Excellent knockdown and residual activity**
- **Effective on a wide range of pests**
- **AgriQuality NZ approved for use in food/beverage/dairy factories**
- **NZFSA approved for use in fish/game/meat factories**
- **Ideal component of industrial and dairy hygiene programmes**

General Information

RIPCORDER gives effective control of many insects and other pests in a wide range of situations: in the garden and on crops; in and around the home, in factories and other buildings; and on some farm animals. RIPCORDER has excellent knockdown and residual activity. Its lipophilic properties enable it to rapidly bind into the waxy cuticle of plant surfaces. This property, which confers resistance to wash off together with its relative stability in sunlight, means that biological activity on plant and other surfaces is maintained for long periods. In addition RIPCORDER exhibits anti-feeding and repellency properties, which further enhance the protective period. RIPCORDER is degraded rapidly in the soil and so does not accumulate in the environment. It has no detectable ill effects on soil microflora or fauna.

Mode of Action

RIPCORDER controls pests by contact and stomach action, acting swiftly on the neuro-muscular system causing initial paralysis and cessation of feeding followed later by death. Often observers misinterpret the presence of moribund insects or larvae on treated crops as lack of control. Research has shown, in the USA for example, that treated insect larvae on cotton crops, though paralysed and not feeding (immediately following contact with the insecticide), may take 24 to 72 hours to die. It is essential to recognise this anti-feeding or disruptive effect when checking sprayed crops or areas after treatment.

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Directions for Use

AGRICULTURE/HORTICULTURE

Since RIPCORD has no systemic action, thorough spray coverage of all foliage is required for optimal results. The rates suggested are for high volume spraying to run-off. For concentrate spraying, adjust the dilution rates accordingly. RIPCORD is a synthetic pyrethroid and should be applied in the appropriate spray window.

Crop	Pest	Rate	Remarks
Cabbage Cauliflower	Diamondback moth, White butterfly, Tomato fruit worm	125 ml RIPCORD in a minimum of 700 litres of water per hectare at 7-day intervals.	Where a 14-day spray schedule is preferred use 250 ml RIPCORD in a minimum of 700 litres of water per hectare. Application should begin immediately following transplanting and be repeated as per desired schedule or as pest activity requires. Gradually increase the spray volume per hectare as the plants grow to ensure thorough coverage of all foliage. Use a wetting agent. Refer to the wetting agent label for specific instructions.
Tomatoes	Tomato fruitworm	12.5 ml RIPCORD per 100 litres of water and apply at a minimum water rate of 640 litres per hectare when pests first appear.	Repeat application every 10-14 days or as indicated by pest activity, increasing the volume of application as the crop matures to ensure good coverage. A spray pressure of at least 420 kPa is required to ensure good penetration of foliage and effective coverage of fruit.
Maize, Sweetcorn	Corn earworm, Army caterpillar	Aerial application, 200 to 300 ml RIPCORD in 90 to 120 litres of water per hectare.	For corn earworm, apply immediately when pests first appear on the silks. For army caterpillars apply immediately when pests first appear. Repeat every 10-14 days or as dictated by pest activity (often 18-21 days). For army caterpillar, use the higher water rate and ensure penetration of the spray to the base of the crop.
Non-bearing kiwifruit, pipfruit, stonefruit, tamarillos, avocados, vines, etc and newly planted shelter belts provided they are not in flower.	Grass grub beetle	50 ml RIPCORD per 100 litres of water.	Apply at dusk as a moderately fine spray (e.g. No. 5 tip and No. 45 swirl plate) to ensure complete foliar coverage. Application should be made at 6-8 day intervals over the beetle emergence and flight period commencing when beetles first appear.

Withholding Periods:

Do NOT harvest cabbages, cauliflower, or tomatoes within 3 days of application, or sweetcorn within 7 days of application. Do NOT graze or feed maize or sweetcorn stubble to livestock within 14 days of application. Do NOT apply to kiwifruit after bud cracking (first visible petals).

Compatibility:

Do not mix with strongly alkaline materials such as Bordeaux mixture and lime sulphur. Do not mix RIPCORD with any other formulated product such as wettable powders and water dispersible granules before addition to the spray tank.

Application:

THE USE OF TEFLON TREATED DIAPHRAGMS AND WASHERS IN PUMPS AND VALVES IS RECOMMENDED.

Resistance Management:

Resistance to this product and other synthetic pyrethroid insecticides may develop following excessive use. Some pests are already resistant to synthetic pyrethroids in parts of New Zealand. To minimize risks from resistance:

- use strictly in accordance with label instructions
- use pesticides from more than one chemical class during the season
- maintain good cultural practices

Consult your supplier or consultant for full and up to date information about each crop and for information on pesticides of different classes. For crops infested or likely to be infested with corn earworm or tomato fruitworm, do NOT apply before 7 January. For crops infested with diamond back moth, do NOT use before late January.

INSECT CONTROL IN BUILDINGS

For use in domestic, agricultural, commercial, and public and industrial premises, e.g. hospitals, meat works, food-processing plants.

Apply as coarse droplet surface spray using 1 litre of prepared spray mix per 20 square metres of surface area. Do NOT apply to run-off as streaking may result on some surfaces. If the surface is particularly porous more spray will be required.

Pest	Rate	Remarks
Cockroaches	100 ml RIPCORDER in 10 litres of water.	Apply to cockroach harbours and frequented areas. A repeat application after 14 days may be required to control late re-infestations.
Flies	50-100 ml RIPCORDER in 10 litres of water.	Apply to walls, roofs, windowsills, and other shelter areas. The higher dose rate on non-absorbent surfaces such as glazed tiles, glass and gloss painted surfaces, will result in up to 8 weeks residual action.
Fleas, silverfish, slaters, carpet beetles	50 ml RIPCORDER in 10 litres of water.	Apply to walls, floors and other places frequented by pests. Apply as a coarse droplet spray.
For control of common house borer (<i>Anobium punctatum</i>) and protection from re-infestation in bare wood.	50 ml RIPCORDER in 10 litres of water, kerosene, or diesel.	Apply by brush or as a spray. The use of either kerosene or diesel as the carrier is recommended for the treatment of heavily infested timber. For the treatment and protection of uninfested timber use water as the carrier.

NOTE:

As RIPCORDER may stain some surfaces, a small test area should be sprayed first to establish compatibility. Evacuate premises to be sprayed. The premises may be re-occupied as soon as spray applications are dry. Before spraying cover or remove fish tanks and bird cages, remove pets, and cover or remove all foodstuffs. Use with adequate ventilation. Do NOT spray on personal contact items e.g. clothing, footwear, towels or bedding. Do NOT allow spray to contact food, food preparation surfaces or food utensils. Wash all food contact surfaces thoroughly before reintroducing any foodstuffs. Do NOT use in areas where dairy or meat products are processed, packed or stored. Do NOT use where food packaging materials (carton, liners etc.) are stored or assembled. Do NOT use near air vents or ducts in food stores or processing plants while they are in operation.

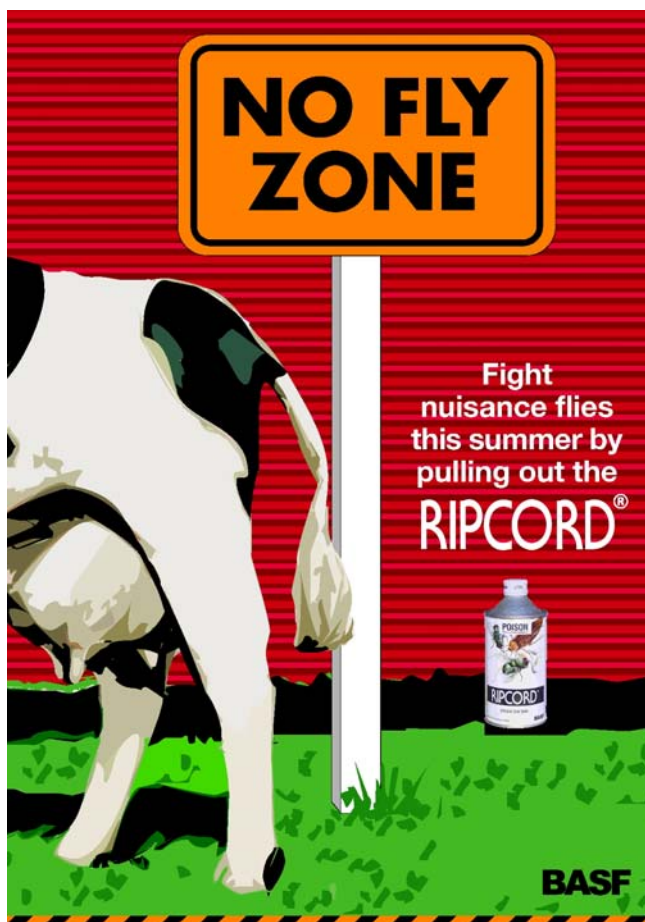
Animal Health

RIPCORD may be applied through spray races or by hand spraying. For best results use spray mix on the same day it is mixed. RIPCORD has been approved for use on lactating dairy animals but care should be taken to avoid direct contamination of milk with the product. Do NOT mix and apply with teat sprays during milking. Do NOT apply to lactating dairy animals until after they have been milked.

Pest	Rate	Remarks
Flies on horses and cattle	Apply 50 ml RIPCORD in 10 litres of water. Dose per animal: Adult cattle & horses - 500 ml of spray mix Young cattle - 250 ml of spray mix Calves and Ponies - 125 ml of spray mix	Use a suitable sprayer with a nozzle providing a medium fine to fine spray but avoid fogging. Spray to cover all parts of the animal. In the case of cattle, application can be made by way of a hooped spray boom mounted over the exit race from dairy sheds/yards. Application should commence at the onset of the fly season and be repeated as necessary, usually at monthly intervals.
Lice and ticks on cattle	Apply 75 ml RIPCORD in 100 litres of water	Use a standard spray dip/re-circulating shower or hand sprayer if appropriate.

Withholding Periods:

Milk withholding period - Nil. Cattle for human consumption must not be slaughtered within 24 days of last treatment, horses within 63 days of the last treatment.



Hazards

Hazard Classification:

3.1C, 6.1D, 6.3B, 6.4A, 6.5B, 6.8B, 6.9A, 9.1A, 9.3C, 9.4A

User:

FLAMMABLE LIQUID AND VAPOUR.

HARMFUL. This substance may be harmful if swallowed, inhaled or absorbed through the skin, and may be an irritant to individuals with sensitive skin. Skin contact may cause temporary skin numbness. May cause sensitisation from prolonged skin contact. May cause reproductive/development damage from repeated oral exposure at high doses. May cause damage to the gastrointestinal tract from repeated oral exposure at high doses. Avoid contact with eyes and skin.

Environment:

VERY TOXIC TO AQUATIC LIFE. Do NOT contaminate surface water such as ponds, waterways or drains with product or used container. Do NOT spray over, or allow drift over, an aquatic environment. Do NOT contaminate water when disposing of equipment wash waters.

HARMFUL TO TERRESTRIAL VERTEBRATES. Remove domestic animals from the operating area. VERY TOXIC TO BEES AND OTHER TERRESTRIAL INVERTEBRATES (insecticide). Spray must NOT contact plants in flower if they are likely to be visited by bees. Do NOT allow spray drift outside the target area to occur.

Precautions

Handling: This product must be under the control of an APPROVED HANDLER if it is being applied in a wide dispersive manner or by a commercial contractor.

Storage: Do not store or use near heat, flame or sources of ignition. Store in original container, tightly closed, in a well-ventilated area, as cool as possible, out of direct sunlight, away from sources of ignition and under lock and key. Do NOT store near food, feedstuffs, animals, or fertilisers. Stores containing more than 100 litres require emergency response plans and secondary containment systems, and are subject to signage. Refer to the SDS for more information.

Transport: Do not carry more than one litre of this product on a passenger service vehicle.

Spillage: Prevent further spillage and product from entering waterways. Wear overalls, gloves, footwear, facemask or goggles. Absorb spill with an inert absorbent material (e.g. vermiculite) and place in sealable container for disposal. Wash affected area with water and detergent. Absorb and collect washings and place in the same sealable container as the spilled material. Dispose of the waste safely in an approved landfill.

Personal Protection: When mixing and preparing spray, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length protective gloves, and goggles or a face shield.

General Safety and Hygiene Measures: Avoid breathing vapour, mist or spray. Wash splashes of concentrate from skin and eyes immediately. Do NOT eat, drink or smoke while using this product. Remove protective clothing and wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing immediately after use. Store work clothing separately.

Use: Remove domestic animals from the operating area. Keep product away from ignition sources such as heat, sparks/open flame/hot surfaces. Apply with well-maintained and accurately calibrated spray equipment. Do NOT spray over, or allow drift over, surface water such as ponds, waterways or drains.

TOXIC TO BEES: Spray must NOT contact plants in flower if they are likely to be visited by bees. Do NOT allow spray drift outside the target area to occur. Clean sprayer out thoroughly after use. Do NOT contaminate water when disposing of equipment wash waters.

Record Keeping: Records of use must be kept if using more than 200 ml of RIPCORD within a 24 hour period.

NOTE: Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409.

Disposal: CONTAINER: Triple rinse empty container and add rinsate to the spray tank, then crush rinsed container and bury in a suitable landfill. PRODUCT: Dispose of this product only by using according to the label or at an approved landfill.

Contact and non-contact re-entry: When fully dry.

First Aid

If exposed or concerned get medical advice/attention. IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. For advice contact the National Poisons Centre 0800 POISONS (0800 764 766) or a doctor. IF ON SKIN: Remove contaminated clothing and wash skin with plenty of soap and water. Do NOT scrub the skin. If skin irritation or rash occurs, get medical advice/attention. Wash contaminated clothing before reuse. 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 to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Regulatory Information

Approved pursuant to the HSNO Act 1996, Approval Code HSR000257.
See www.ermanz.govt.nz for approval controls.

Registered pursuant to the ACVM Act 1997, Nos. P2810 and A5671.

For registration conditions relating to the use of RIPCORD in horticulture see www.nzfsa.govt.nz/acvm, P2810.

For registration conditions relating to the use of RIPCORD for animal health see www.nzfsa.govt.nz/acvm, A5671.

NZFSA Approved Type B (All animal product except dairy).

AgriQuality Approved for use in Food/Beverage/Dairy Factories Category B.

Pack Size

500 ml metal bottle

Transport Information

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains xylene)

UN No.:	DG Class:	Subsidiary Risk Class:	Packing Group:	HAZCHEM:	MTQ*:	Marine Pollutant:
1993	3	NA	III	3W	250 L	Yes

* Maximum Transport Quantity. Maximum quantity that can be carried as tools of trade, or for private, agricultural or commercial use without the need for complying with all the requirements of the Land Transport Rule e.g. placarding.

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RIPCORD is HARMFUL. Keep out of reach of children.