

ECOTOXIC



# Uphold™

## INSECTICIDE

**ACTIVE INGREDIENT:** Contains 120 g/Litre spinetoram in the form of an aqueous suspension concentrate.

GROUP	<b>5</b>	INSECTICIDE
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An insecticide for the control of psyllids (TPP) in potatoes and field tomatoes and for the control of thrips in bulb onions; and for the control of leafroller and thrips in avocados.

**READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING**



**NET CONTENTS:** 20 Litres

**Dow AgroSciences (NZ) Limited**

89 Paritutu Road, Private Bag 2017

New Plymouth 4342

[www.corteva.co.nz](http://www.corteva.co.nz)

Telephone: 0800 803 939

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Uphold™

21<sup>st</sup> October 2020

**HAZARD CLASSIFICATION:** 6.9B, 9.1A, 9.4A

**APPROVED HANDLER:**

This product must be under the personal control of an approved handler when:

- a) applied in a wide dispersive manner; or
- b) used by a commercial contractor.

**RECORD KEEPING**

Records of use, as described in the relevant HSNO regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if using more than 3 litres of Uphold within 24 hours in a place where members of the public may be present or where the substance may enter air or water and leave the place.

**TOXICITY:**

**HARMFUL: MAY CAUSE ORGAN DAMAGE FROM REPEATED ORAL EXPOSURE AT HIGH DOSES.** DO NOT eat, drink or smoke while using. Remove protective clothing immediately after handling this product and wash hands and face before meals and after work.

**ECOTOXICITY**

**VERY TOXIC TO AQUATIC ORGANISMS.** Uphold shall not be applied onto or into water. DO NOT contaminate an aquatic environment with chemical or empty container. DO NOT spray over or allow drift over, an aquatic environment.

**VERY TOXIC TO TERRESTRIAL INVERTEBRATES.** Dangerous to bees. Avoid direct application or drift of the spray mix onto bees. Once the spray deposit has dried, foraging bees will not be affected. See also "Pollinators" section on the label.

**HANDLING PRECAUTIONS**

**EQUIPMENT**

Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the Disposal instructions below.

**STORAGE**

Store in the original container tightly closed and in a locked, dry, cool, well-ventilated area, well away from foodstuffs.

Stores containing 100 Litres or more of Uphold are subject to containment and signage. See the Hazardous Substances Emergency Management and Identification Regulations and the New Zealand Standard for the Management of Agrichemicals (NZS 8409) for further information. Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

**PERSONAL PROTECTION**

Normal work clothes (overalls buttoned to the wrist, water resistant workboots and a washable hat) should be worn when mixing or applying Uphold. Use of a face shield or goggles is also recommended when preparing and using the spray mixture.

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## **SPILLAGE**

DO NOT touch or walk through spilled material. Wear face shield or goggles, chemical resistant overalls (buttoned to neck and wrist), gloves and boots. Stop leak if safe to do so. Dike area and prevent entry into waterways and drains. **Small spills/leaks:** Contain and absorb small spills with a proprietary absorbent suitable for chemical spills or inert material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. **Large spills/leaks:** Dam the area off and report them to Corteva Agriscience Emergency Services at 0800 844 455.

## **DISPOSAL**

Triple rinse empty container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label, that are free of all residues (liquid and dry) and have an intact legible label may be taken to an **Agrecovery** collection site. Otherwise crush or puncture and bury in a suitably approved landfill. DO NOT burn empty containers.

Dispose of this product by using according to the label, or via Agrecovery (visit [www.agrecovery.co.nz](http://www.agrecovery.co.nz) or call 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical acceptable for disposal), or at an approved landfill. DO NOT burn.

Dispose of unused spray mix and equipment cleaning water onto non-grazed and non-cropped ground away from edible and flowering plants.

DO NOT dispose of this product; spray mix or equipment cleaning water down drains or sewers.

## **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 splashed in eyes, wash out immediately with water. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

## **SAFETY DATA SHEET**

A Safety Data Sheet is available from Corteva Agriscience on request. Call Customer Service Toll Free on 0800 803 939 or visit [www.corteva.co.nz](http://www.corteva.co.nz)

## **TRANSPORT**

This product may be carried on a passenger service vehicle, providing there is compliance with the Dangerous Goods requirements.

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## NOTICE

**Important:** You **must** read the warning and conditions given on this label. If they are not acceptable, or if you are in doubt as to the proper handling of this product, including its transport, storage, use, disposal, and requirements for approved handlers (if applicable) then return the unopened product to the supplier at once.

**Warning:** This product is subject to controls and could be hazardous if handled incorrectly. The **user is responsible** for ensuring that the handling of this product is in accordance with the law (including the *Hazardous Substances and New Organisms Act 1996* and the *Agricultural Compounds and Veterinary Medicines Act 1997*) and with the directions provided. The Registrant declines all liability (whether in contract, tort (including but not limited to negligence), or otherwise) to the maximum extent permitted by law in relation to the handling of this product in a manner which is contrary to the directions given or to any applicable Acts, Regulations or Guidelines.

**Further information** regarding the applicable Acts, Regulations and Guidelines for the proper handling of this product may be obtained by contacting New Zealand EPA ([www.epa.govt.nz](http://www.epa.govt.nz)) or the Ministry for Primary Industries (MPI) ([www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)).



This product is warranted to contain the specified active ingredients within accepted analytical tolerance when packed.

<b>Registered to:</b> Dow AgroSciences (NZ) Ltd* 89 Paritutu Road Private Bag 2017 New Plymouth 4342 Telephone 0800 803 939 <a href="http://www.corteva.co.nz">www.corteva.co.nz</a>	<b>EMERGENCY RESPONSE</b> (All hours) Ring from anywhere in New Zealand <b>0800 844 455</b> or <b>+61 6 751 2407</b>	<b>IN A TRANSPORT EMERGENCY</b>  <b>DIAL 111</b>  <b>FOR POLICE OR FIRE</b>
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\* Dow AgroSciences is a member of the Corteva Agriscience group of companies

Registered pursuant to the ACVM Act 1997, No P9233  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR100387  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

 	Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPINETORAM) Marine pollutant UN Number: UN 3082 Packing Group: III HAZCHEM: 2X
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Date of Manufacture:

Batch No.

Barcode

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## APPLICATION METHODS

Uphold™ can be applied with conventional ground-boom. Flush equipment thoroughly with clean water after use.

**IMPORTANT:** In order to select the appropriate nozzles for the required spray quality and to operate the equipment to minimize spray drift, this product must be applied in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS 8409).

### Cleaning spray equipment:

#### Rinsing

After using Uphold™:

- Empty the spray tank completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. Drain spray unit and clean any filters in the tank, pump, lines, hoses and nozzles.
- After cleaning the spray unit as above, quarter fill with clean water and circulate the water through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.
- Discard rinse water on land already sprayed or on wasteland away from water sources.

## MIXING

Pour the required quantity of Uphold™ into the partly filled spray tank and then add the remainder of the water, agitating thoroughly during filling. Agitate thoroughly during spraying and before spraying after a stoppage.

## COMPATIBILITY

Wetters & spreaders: Ensure that Uphold™ is only applied in mixture with reputable, horticultural grade wetters & spreaders that have a known history of safe use on target crops. DO NOT use Uphold™ in mixture with adjuvants that have potential to cause crop injury.

## STORAGE OF DILUTED SPRAY MIX

Whenever possible use spray mix immediately after it is prepared. However, when weather conditions prevent immediate use, the spray mix may be stored for up to 72 hours without loss of activity. The spray mix must be stored out of direct sunlight. Before spraying after storage, thoroughly agitate the spraymix to ensure complete re-suspension of Uphold™.

## RAINFASTNESS

Avoid applications when rain is expected within 6 hours of spraying.

## RESISTANCE MANAGEMENT

**GROUP 5 INSECTICIDE**

Uphold™ is a Spinosyn insecticide (Group 5). Some naturally occurring individual insects may become resistant when excessive use of the same insecticide occurs. To maximize the effectiveness of insecticides, products containing alternate modes of action should be used in the spray program. Consult <http://resistance.nzpps.org/> for alternate modes of action and the details of resistance management strategies (if any) for the crops listed on the label. See Use Directions table below for specific recommendations for Uphold™.

Resistance to this product may develop from excessive use. To minimise this risk, use strictly in accordance with label instructions. Uphold™ has a unique mode of action and

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controls pest species that are resistant to conventional insecticides. To help prevent the development of resistance DO NOT apply more than 4 applications of Uphold™ to any crop in any one season. Use insecticides from a different chemical group if more than 4 applications are required.

#### **POLLINATORS**

When applied during non-foraging periods, Uphold™ will not interfere with the activity of honey-bees once the spray has dried. At least 3 hours drying time should occur before bee foraging is expected. At times when bees aggregate in large numbers outside the hive, ensure they are not directly contacted by the spray.

#### **WITHHOLDING 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.**

**Potatoes:** 7 days

**Tomatoes:** 7 days

**Onions (bulb):** 3 days

**Avocado:** 14 days

#### **Orchards:**

DO NOT allow livestock to graze in orchards treated with Uphold™ until at least 28 days after the last application.

**Refer to export industry withholding period charts for export produce.**

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## DIRECTIONS FOR USE

It is an offence to use this product on animals

Uphold™ works by both contact and ingestion activity. Exposed pests stop feeding immediately but can take up to 3 days to die.

DIRECTIONS FOR USE			
CROP	PEST	APPLICATION RATE & COMMENTS	APPLICATION TIMING & COMMENTS
Potatoes and field tomatoes	Tomato / potato psyllid (TPP), <i>Bactericera cockerelli</i>	375 – 500 ml/ha  Apply from the ground by broadcast application (boom spraying). Use the higher rate when TPP pressure is high and/or foliage density is high. <u>Only</u> apply the low rate to small plants when TPP pressure is low.  Always apply Uphold™ in sufficient water (500L/ha) to ensure thorough coverage and with a suitable wetter/spreader with a history of safe use on potatoes & field tomatoes.	As part of a season long programme, apply up to four, “back to back”, applications of Uphold™ at 7-day intervals.
Bulb onions	Thrips ( <i>Thrips tabaci</i> )	500 ml/ha  Apply from the ground by broadcast application (boom spraying).  Always apply Uphold™ in sufficient water (500L/ha) to ensure thorough coverage and with a horticultural grade wetter/spreader with a history of safe use on onions.	As part of a season-long programme, apply up to four “back to back” applications of Uphold™ at 7-day intervals.
Avocado	Leafroller	<b>High volume spraying:</b> Dilution rate: 20mL per 100L water.  Apply as a high-volume spray in sufficient water, relevant to tree and foliage density to ensure thorough coverage to point of run-off.  DO NOT apply more than 800 mL/ha	Apply every 14 days or as part of an IPM programme and re-apply when thresholds are exceeded.  <b>DO NOT</b> apply more than 4 applications in any one season.
	Thrips	<b>High volume spraying:</b> Dilution rate: 40mL per 100L water <u>plus</u> Latron B-1956.  Apply as a high volume spray in sufficient water, relevant to tree and foliage density to ensure thorough coverage to point of run-off.  DO NOT apply more than 800 mL/ha	Thrips in avocados: Always add Latron B-1956 surfactant (40mL/100L) to the spray mix.
<b>Resistance Management</b> DO NOT apply more than 4 applications of Uphold™ per crop in any one season.			

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Use Uphold™ only in a sequence of four “back to back” applications per season. Apply insecticides with different modes of action for the remainder of the season. DO NOT apply more than 4 applications of Uphold™ to onion, potato and field tomato crops in any one season.  
<http://resistance.nzpps.org/insecticides.php?p=diamondback>

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21<sup>st</sup> October 2020