

syngenta.

Reg. No. L3035 Act No. 36 of 1947 N-AR 0886 (Nambia) W130594 (Botswana)

**Hazard statements:** 

A wettable powder systemic contact and stomach insect growth inhibitor (IGI) for the control of leafminers in tomatoes, green beans, potatoes, bulb vegetables, cruciferae, cucurbits, leafy vegetables, legume vegetables and peppers, as well as control of fungus gnat and mushroom flies in cultivated mushrooms.

GROUP 17 INSECTICIDE

Active Ingredient: cyromazine...... 750 g/kg

Product names marked ® or ™, the ALLIANCE FRAME the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company



Precautionary statements:
Keep out of reach of children. Do not breathe spray. Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. Prevention: Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Response: Collect spillage. Storage: Store locked-up. Disposal: Dispose of contents/container to an approved waste disposal plant.

Very toxic to aquatic life with long-lasting effects.

WARNING

EMERGENCY TEL NO.: +27 82 446 8946 (Griffon)

UN 3077

Registration holder Syngenta South Africa (Pty) Ltd Co. Reg. No. 1998/013761/07 Private Bag X 60 HALFWAY HOUSE, 1685 Tel.: +27 11 541 4000

# 1. WARNINGS:

**Hazard statements:** Very toxic to aquatic life with longlasting effects.

Allow the following number of days between last application and harvest or cutting:

CRUCIFERAECUCURBIT GROUPLEAFY VEGETABLESLEGUME VEGETABLES (dried and succulent beans, except cowpeas, green beans and	7 days 7 days 1 day 7 days
soybeans)	7 days
MUSHROOMS	3 days 14 days
PEPPERS (capsicum group)	1 day
POTATOES	28 days
TOMATOES	3 days

**NOTE:** Compliance with these withholding periods will ensure that residues do not exceed local maximum residue limits (MRL), but the import tolerances of other countries might possibly be exceeded. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, MRL's and recommended withholding periods.

- Store in a cool place.
- Store away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- **Re-entry:** Do not enter treated area until spray deposit has dried unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weed against the remedy concerned, as well as by the method, time and accuracy of application. The

registration holder furthermore does not accept responsibility for damage to crops, vegetation and the environment, or harm to people or animals or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions, that could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

#### 2. PRECAUTIONS:

Precautionary statements: Keep out of reach of children. Do not breathe spray. Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. Prevention: Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Response: Collect spillage. Storage: Store locked-up. Disposal: Dispose of contents/container to an approved waste disposal plant.

- Do not inhale the dust or spray mist.
- Wash with soap and water after use.
- Wash contaminated clothing after use.
- Do not eat, drink, or smoke while mixing or applying the product or before washing hands and face.
- Clean applicator after use. Dispose of rinsate where it will not contaminate crops, grazing, rivers, boreholes and dams.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Destroy empty container in the prescribed manner and do not use it for any other purpose.

#### 3. RELEVANT SUBSTANCES:

Chemical name	Classification	Concentration (% w/w)	
Not applicable	Not applicable	Not applicable	

### 4. RESISTANCE MANAGEMENT:

**PATRON 75 WP** is a group code 17 insecticide. Any insect population may contain individuals naturally resistant to **PATRON 75 WP** and other group code 17 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly and

exclusively in programs. These resistant insects may not be controlled by **PATRON 75 WP** or any other group code 17 insecticides.

#### To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes.
- Integrate other control methods (chemical, cultural, biological) into insect control programs.
- A potential exists for poor control of the American leafminer as a result of cyromazine resistant strains.
- Use AGRIMEC® GOLD (L9235) as an alternative compound in those areas where resistance occurs.

Syngenta cannot accept responsibility for any losses that may result from the failure to control pests resistant to **PATRON 75 WP**.

For specific information on resistance management contact the registration holder of this product.

### 5. PRODUCT CHARACTERISTICS:

- **PATRON 75 WP** is an insect growth inhibitor (IGI), especially active on *Diptera* leafminer larvae.
- It impedes the moulting process of young larvae (*larvacidal effect*) and prevents normal pupation.
- It has no adulticidal effect.
- The product is translaminar as well as systemic.
- It is especially effective against *Liriomyza* leafminer species and mushroom flies such as *Sciaridae* fungus gnats (*Lycoriella* species).
- When used in mushroom cultivation PATRON 75 WP should be used in an integrated program together with products like ACTOGARD (L5054) or space treatments for the control of adult flies. PATRON 75 WP will not give complete control of fungus gnats in the absence of regular cultivation and sanitation practices. In the case of prolonged and continued infestation treatment of the compost followed by casing application is recommended.

#### 6. SCOUTING:

Make use of a scouting system and economic threshold values to determine when to commence applications.

# 7. DIRECTIONS FOR USE: Use only as indicated.

### 7.1 Compatibility

The compatibility of **PATRON 75 WP** with other products may be influenced by the formulation of the products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of Syngenta and the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application.

# Important:

**PATRON 75 WP** is not compatible with SORBA® (L5343) and endosulfan.

### 7.2 Mixing Instructions

- Pre-mix the required quantity of PATRON 75 WP with a small volume of clean water.
- Half-fill the spray tank with water and add the slurry while the water in the tank is being stirred.
- Add water to make up the desired spray volume.
- Keep the spray mixture agitated during mixing and spraying.

# 7.3 Application Techniques

**PATRON 75 WP** may be applied with a mistblower or any medium- or high-volume sprayer which is equipped with an efficient agitation mechanism, provided adequate coverage and even distribution can be obtained.

# 7.4 Application Rates

Cron	Decede	Remarks
Crop	Dosage	
BULB		Foliar spray
VEGETABLES (Includes garlic,		Apply PATRON 75
leeks, onions and		WP as a foliar spray
shallots)		when leafminers first
0.10010		appear.
CRUCIFERAE		• Apply PATRON 75
AND TURNIP		<b>WP</b> in sufficient water
GREENS		to achieve adequate
(Includes turnip		coverage.
greens [tops/leaves		<ul> <li>Repeat application,</li> </ul>
only], broccoli,		as needed, at 7-day
brussels sprouts, cabbage, Chinese		intervals to maintain
cabbage, of linese		control.
cauliflower)		<ul> <li>To avoid possible</li> </ul>
,		illegal residues, do
CUCURBIT		not apply more than
GROUP		four (4) applications
(Includes bitter		per crop cycle.
melon, cucumber,		Important
gherkin, melons,		Important
cantaloupe, muskmelon,	190 g/ha	Turnip greens (tops,
pumpkin, squash		leaves) only: For use on
and watermelon)		turnip varieties grown for
and watermoon,		leaves only.
LEAFY		<ul> <li>Do not use on turnip</li> </ul>
VEGETABLES		varieties grown for
(Includes		roots or dual-purpose
Amaranthus spp.,		varieties grown for
celery, cress,		roots and leaves.
endive, Florence fennel, lettuce,		
parsley, rhubarb,		
spinach and Swiss		
chard)		
LEGUME		
VEGETABLES		105
Dried beans,		
except cowpeas		
and soybeans		
(Includes black- eyed peas, broad		
beans, chick		
peas, field beans,		

Crop	Dosage	Remarks		]
grain lupin, kidney beans, lablab beans, lentils, lima beans, white lupin and white sweet lupin)		-38	54	
Succulent Beans (Includes Phaseolus spp. and Vigna spp.)	190 g/ha	Co		C
PEPPERS (CAPSICUM GROUP) Leafminers		Jng.		
(Liriomyza spp.)  MUSHROOMS  Fungus gnat		Compost ap	pplication:	
(Lycoriella auripila)  Phorid fly (Megaselia halterata)  Dung fly (Pullimosina heteroneura)	0.4 - 0.9 g/m²	Incorporation Incorporation Compost as soon after paraccording below when the wet we compost	ate into the during filling as possible asteurization g to the table nich refers to weight of the cicient water e spray.	®
		Fill mass	Patron 75 WP rate	
senta®		60 kg/m² 75 kg/m² 90 kg/m² 105 kg/m² 120 kg/m² 135 kg/m²	0.4 g 0.5 g 0.6 g 0.7 g 0.8 g 0.9 g	
	Sen	Compost ap	pplication:	
5 yn	0.7 g/m²	Surface dre Apply the F WP in 1.5 - 2 surface area.	PATRON 75 .0 \ell water/m <sup>2</sup>	®
		75 WP 8	ne <b>PATRON</b> as a surface	
isenta®	0.5 g/m²	layer in water/m² • Applicat occur		
Syn		Follow-up later in to cycle and breaks recommendate.	application	R

Crop	Dosage Remarks	
MUSHROOMS cont.	eni	flies and dung flies, and also when the compost is the main source of infestation of Fungus gnats.
53/11	6	Casing application is required to prevent damage to mushrooms in the casing layer.
POTATOES Leafminer		<ul><li>High-volume spraying</li><li>Apply as a complete</li></ul>
(Liriomyza spp.)		full-cover spray to point of run-off. Adjust water volume according to plant size.
		Spray a block of two (2) <b>PATRON 75 WP</b> applications 7 days
5Y <sup>N8</sup>	200 g/ha	apart in a 30 day window.  • Alternate with a product with a different mode of action for a 30 day
* 0°	200 9/114	window.  • Apply up to a maximum of four (4)  • PATRON 75 WP applications per crop cycle.
ence		<ul> <li>No applications of PATRON 75 WP are allowed through the pivot.</li> <li>Apply in a spray</li> </ul>
53/11/		program with other registered leafminer products, such as AGRIMEC® GOLD (L9235).
TOMATOES AND GREEN BEANS American leafminer	5	<ul> <li>Apply in a program spray and repeat at 7-day intervals when the threshold level is again reached.</li> <li>Do not use in</li> </ul>
(Liriomyza trifolii)		nurseries.
5yng	20 g/100 ℓ water Increase this dosage gradually to a maximum of 150 g/1 000 ℓ water	FARM LANDS High-volume spraying  Apply as a complete full-cover spray to point of run-off.  Adjust water volume according to plant size.
enta®	Use <b>PATRON 75 WP</b> at 40 g/200 ℓ 60 g/300 ℓ	Low-volume/Mist blower  Uniform coverage of the plant mass is essential.

Crop	Dosage	Remarks
TOMATOES AND GREEN BEANS cont.	80 g/400 ℓ 100 g/500 ℓ 110 g/600 ℓ 120 g/700 ℓ 130 g/800 ℓ 140 g/900 ℓ and 150 g/ 1 000 ℓ water.  Thereafter, maintain a dosage rate of 150 g/ha irrespective of the	Irrespective of the water volume used per hectare, it is essential to use the same amount of PATRON 75 WP as when using high-volume spray equipment.
*3°	volume of water used per hectare.	) 
		ated below in areas where <b>75 WP</b> is experienced.
5YN	30 g/100 $\ell$ water Increase this dosage gradually to a maximum of 200 g/1000 $\ell$ water.	ingenta
genta <sup>®</sup>	Use PATRON 75 WP at 60 g/200 ℓ 90 g/300 ℓ 120 g/400 ℓ 150 g/500 ℓ 160 g/600 ℓ 170 g/700 ℓ 180 g/800 ℓ 190 g/900 ℓ and 200 g/ 1 000 ℓ water.	o sy
4 nta	Thereafter, maintain a dosage rate of 200 g/ha irrespective of the	yns W

volume of water used per hectare.

AGRIMEC® GOLD, PATRON® and SORBA® are registered trade marks of a Syngenta Group Company. ACTOGARD® is a registered trade mark of Novartis Animal Health Inc., Basel, Switzerland.

© SYNGENTA AG, 2000. Copyright of this document is reserved. All unauthorised reproduction is forbidden.

SA Reg.: 2017-01-26