

Biorational for the control of Western Flower Thrips and Onion Thrips on Protected Ornamentals

- Azatin contains Azadiractin-A, a botanical insecticide derived from Neem trees
- Approved for the control of thrips (*Frankliniella occidentalis* and *Thrips tabaci*)
- For protected ornamentals including floristry plants, forest nursery and roses grown in substrate
- Use under permanent protected structures only
- An integral part of resistance management programmes

Best Practice

- Use 140ml in 100L of water
- Constant agitation is required during mixing and application
- Start applications 7-14 days before flowers open
- Can apply up to 20 sprays per crop
- Ensure good coverage and where possible use water with pH ≤7
- Rainfast in 3 hours
- Workers handling treated crops must wear gloves to minimum glove safety standard of EN374-2:2003:Level 2

Beneficial Insects Profile

Beneficial insect	Adult	Nymphs	Eggs
<i>Encarsia formosa</i>	4	3	2
<i>Amblyseilus cucumeris</i>	3	N/A	N/A
<i>Amblyseilus swirskii</i>	1	N/A	N/A
<i>Amblyseius montodorensi</i>	1	N/A	N/A
<i>Phytoseilus persimilis</i>	1	1	1
<i>Aphidoletes aphidimyza</i>	1	N/A	N/A

- Exclude all pollinators during and post application
 - Ensure treated area is fully dry before reintroducing bees (IOBC Classification where 1=<25% impact, 2=25-50% impact, 3=50-75%, 4=>75%+ impact)

Crop	Azatin 0,14%
Rose 'Sphinx Gold'	
Rose 'Grand Prix'	
Rose 'White Naomi'	
Chrysanthemum	
Gerbera 'Kimsey'	
Gerbera 'Albino'	
Gerbera 'Benisa'	
Gerbera 'Taxi'	
Cyclamen	
Saintpaulia	
Ficus-Draecena	
Begonia	

Netherlands Crop Safety Experience

- Safe applications on: Rose, Chrysanthemum, Gerbera, Ficus, Begonia
- Saintpaulia flowers may be affected and Cyclamen may show temporary spray deposits

Key: Safe
 Temporary Spotting

Efficacy Trial Result

Azatin gave close comparable WFT larvae control with standard treatment in flowering chrysanthemum crop.

Azatin gave **56.9%** control of WFT larvae while thiamethoxam treatment gave **59.0%** control when compared to untreated. (Boxworth Bioassay Trial 2016)



Formulation	217 g/L azadiractin (formulated to achieve a concentration of 26 g/L Azadiractin-A) Emulsion concentrate (EC)		
Chemical Class	Bio-insecticide with insect growth regulatory (IGR) and repellency properties (IRAC UN)		
Crops	Protected ornamentals, roses grown in substrate, forest nursery and perennial crops		
Number of applications	Up to 20 per crop per year in 5 blocks of 4 applications at 7 day spray intervals with 42 days between each block . 140 ml/100 L of water and allow sufficient for good coverage		
Rate of use	1.4 L/ha (or 1.68L/ha for substrate raised roses only)	Harvest Period	N/A
Coverage	0.14% maximum concentration	MAPP no.	18301

USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.

For further information with regard to the warning phrases and symbols for these products please refer to the product labels.

Azatin® is a registered trademark of Certis USA and contains 217 g/l azadiractin.

Marketed by: Certis, 3 Riverside, Suite 5, Granta Park, Great Abington, Cambridge CB21 6AD.

Tel: 0845 373 0305 Fax: 01223 891210 www.certiseurope.co.uk

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