

## Dragon 175 SC™

Active Ingredients: Methoxyfenozide 10 g/Lt + Spirotetramat 75 g/Lt

**Dragon 175 SC™ is a suspension concentrate insecticide, with systemic properties, for the control of Lepidoptera pests, scales and soft body insect pests on a wide range of crops.**

### Dragon 175SC™ Characteristics

- Broad spectrum of activity.
- Highly effective against difficult to control insect pests.
- Suitable for use on a wide range of crops.
- Easily absorbed in plant tissues and digested by the target pest.
- Not phytotoxic when used as directed.
- Reduced cross resistance with other conventional insecticides.
- Excellent residual control.
- **IPM Compatible.**

Unique synergetic mixture of two complementary, highly effective active ingredients.

IGR Action against Lepidoptera pests.

Systemic action against soft body insect pests.

Alternative insecticide for the control of difficult to control insects as well as pests resistant to other insecticide classes.

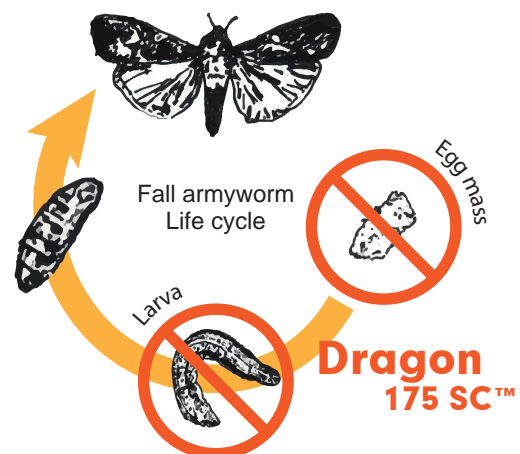
### IGR action against the juvenile stages of the insects:

**Dragon 175SC™** main target is the insect (either Lepidoptera or soft bodied insects) in its Juvenile stages.

**Dragon 175SC™** has additional complementary ovicidal action.

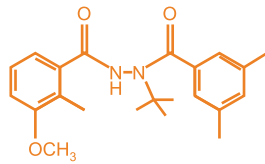
The product application breaks the biological life-cycle of the insect pests.

**Recommended for use in Integrated insecticide resistant management strategies (IRM).**



## Methoxyfenozide

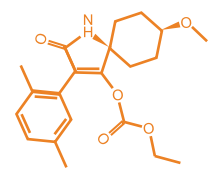
- IGR- moulting acceleration compound
- N-tert-butyl-N'-(3-methoxy-o-toluyyl)-3,5-xylohydrazide (IUPAC)



- Chemical Formula:  $C_{22}H_{28}N_2O_3$
- Methoxyfenozide, is a moulting acceleration compound, that mimics the action of the moulting hormone of Lepidoptera larvae (L1 to L2 stages). It differs from other insect growth regulators like chitin- biosynthesis-inhibitors or juvenile-hormone mimic products.
- Upon ingestion, larvae of Lepidoptera cease feeding within 4 to 8 hours and thereafter undergo an incomplete and developmentally lethal premature moult.
- The larvae die on account of their inability to feed and complete the moulting process. Methoxyfenozide also shows good ovicidal effect.
- IRAC Group: 18 (Ecdysone receptor agonists - Growth regulation).

## Spirotetramat

- Tetramic acid derivative
- cis-3-(2,5-Xylyl)-4-(ethoxycarbonyloxy)-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one



- Chemical Formula:  $C_{21}H_{27}NO_5$
- Spirotetramat is a systemic insecticide for the control of sucking insect pests in their juvenile, immature stages. Spirotetramat application results in growth inhibition of the immature stages of the targeted insects and reduces their ability to reproduce mortality.
- Adults insects may still be observed following sometime after application depending on the effect of environmental conditions on the lifecycle of target pests.
- Acts by inhibiting the biosynthesis of lipids.
- IRAC Group: 23 (Inhibitors of acetyl CoA carboxylase - Lipid synthesis, growth regulation).

## Directions for use:

**Application timing:** Dragon 175SC™ is recommended to be applied upon pest appearance.

Ensure thorough coverage of the canopy with the spraying mixture.

In case of high pest pressure, repeat application at 7-10 days intervals, with no more than 3 applications per growing season.

Always alternate with insecticides with different mode of action through the season to prevent the development of resistant pests.

## Rate of Application

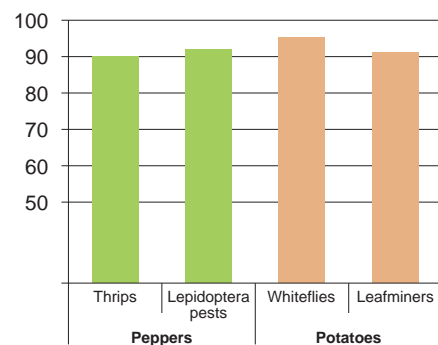
Crop	Pest	Application Rate
Ornamentals	Lepidoptera pests, Leafminers, Thrips, Whiteflies incl. Bemisia tabaci Biotype B, Spidermites, Scales, Aphids, Mealybugs	350 - 500 ml/Ha
Vegetables (Tomato, Cruciferae, Carrots, Paprika, Peppers, Eggplant)		
Potatoes, Beans		
Maize, Wheat		
Cotton		

*Dragon 175SC™ should be mixed with water to be ready for use. It may be applied with many types of spraying equipment*

**Application note:** To obtain the maximum efficacy against Lepidoptera larvae, apply as preventative sprays with a recommended positioning at the beginning of moth flight peak, or before egg hatch where degree day models are followed (e.g. Codling Moth), or before egg hatch of peak moth flights. Thus, the majority of eggs will be laid on treated surfaces and emerging larvae are exposed to the active ingredient before any damage is caused.

## Field Trials:

Field research has proven the efficacy of Dragon 175SC™. In Valencia, Spain (2019) the following results were obtained:



**% Efficacy of Dragon 175SC™:  
1 application at 400 ml/Ha**