



A novel formulation type: Oil-based dispersion. (O-TEQ)

**Contains: Imidacloprid 100 g/l +
Beta-cyfluthrin 45 g/l.**

Introduction:

Thunder[®] OD145 is a new foliar insecticide for broad spectrum efficacy in a wide range of crops. With the combination of the two different active ingredients *Imidacloprid* and *Beta-cyfluthrin*, **Thunder**[®] OD 145 combines a fast knockdown effect with long-lasting residual control. **Thunder**[®] OD 145 can be used for the control of both biting and sucking pests.



Mode of Action:

As a combination two active ingredient, **Thunder**[®] has a simultaneous duo-target in its action within the insect nervous system. *Beta-cyfluthrin* acts on the sodium channel while the *Imidacloprid* acts on the acetylcolines receptor of the nervous system.

Thunder's unique mode of action, has a combination of contact and systemic properties and thus provides:

- quick knock-down effect
- excellent control of a wide range of pests
- long-lasting effect
- strong activity
- anti-feeding-effect

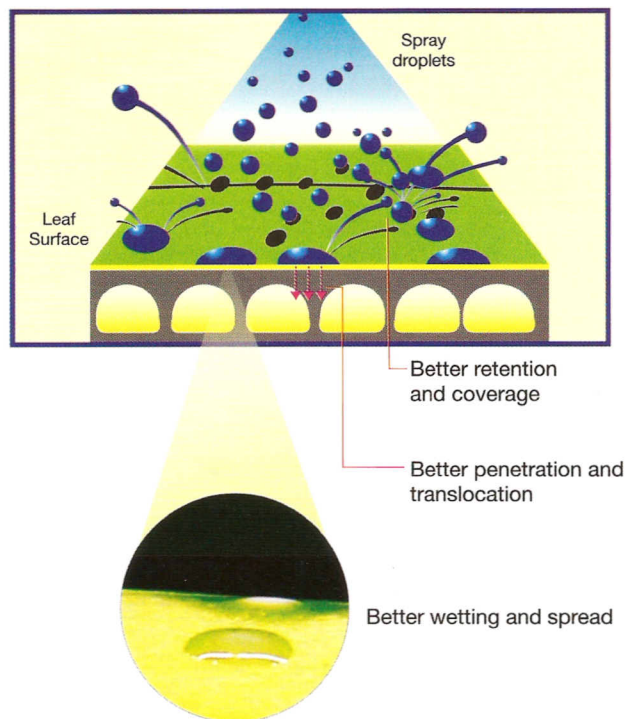
Thunder[®] is an additional tool for resistance management. No cross-resistance between *Imidacloprid* and *Beta-cyfluthrin*.

Formulation

Thunder[®] OD 145 is formulated using Bayer's new oil based and solvent free O-TEQ innovation. This O-TEQ formulation ensure optimal uptake of the active ingredients through the leaf into the insect- resulting in an enhanced biological efficacy.

Benefits of using Thunder's O-TEQ:

- improved retention and coverage on the leaf
- better spreading of the spray residue
- minimised run off
- improved rainfastness
- better product penetration
- Improved translocation in the plant



Syneresis - What is it?

Upon storage, the O-TEQ formulation products, forms a separation into two different phases. This unique characteristic is referred to as Syneresis.

- The suspended phase remains homogeneous and can be easily re-dispersed **by shaking**
- Syneresis is **NOT a sedimentation process**; hence no residue is formed on the bottom of the Container
- Farmers are advised to always shake the product before use
- **Syneresis** is reversible by shaking

ALWAYS SHAKE BEFORE USE



Application:

Thunder[®] OD 145 is applied as a foliar spray treatment using various water volumes, depending on the crop and foliage height/density to ensure that all the aerial parts of the crops are well covered.

Directions for use: Use only as directed.

Crop	Target insect	Rates of application	Timing of application/ Remarks
Ornamentals: Veronica <i>Ageratum spp</i> Roses Carnations	Aphids White flies (<i>Bemisia spp</i>)	300 ml/ha in 1000 litres of water	Apply at first signs of infestation as a full cover spray and repeat at 7 - 14 days interval depending on the re-infestation.
Wheat Barley	Russian and other wheat Aphids Bollworms	300 ml/ha in 250 - 300 litres of water or 20 - 25 ml/20 litres water	As soon as early infestation are noted during the mid-tiller and/or booting stage
Tomato French Beans	Thrips, Aphids, White flies, Leaf miners, Caterpillars (<i>Helicoverpa armigera spp</i>)	300 ml/ha in 600 litres of water/ha or 10 ml in 20 litres of water.	Apply at first signs of infestation as a full cover spray and repeat at 7 - 14 days interval depending on the re-infestation. Pre-harvest interval (PHI): 7 days

