



Active Ingredient

Pymetrozine 500 g/kg.
Insecticide for the control of sucking pests in ornamentals, peas and beans.

Mode of Action

Chess® is an insecticide especially suited for IPM programs. It penetrates green leaves and is transported within the plant (systemic action). Foliar pests not directly hit by the spray are also controlled. It stops feeding activity of aphids and whiteflies quickly; death will occur after 1 - 4 days. Due to its unique mode of action the risk for cross-resistance with other products is low.

Spectrum of Activity

Chess® is highly active against susceptible and resistant strains of aphids and whiteflies.

Crop Tolerance

Chess® is well tolerated by many crop varieties. In case of new varieties or doubt, check crop tolerance first.

IPM-Fitness

Monitor pests and beneficials and use local thresholds. If several treatments are required against the same pest, alternate products with different modes of action. In greenhouses **Chess**® can be combined with beneficials (e.g. **Encarsia**, **Phytoseiulus**). However **Chess**® is slightly toxic to **Macrolophus** and should not be used during the establishment of this beneficial in greenhouses. In the field the natural fauna is not affected.

Directions for Use

Rates

Pests	Dosage
• Aphids	400 g/ha
• Whiteflies	600 g/ha

The use rate is max. 0.6 kg/ha, 3 times per season with water a volume of 500 - 1000 lt./ha.

Pre-harvest Interval

Crops	PHI
• Vegetables	7 days
• Ornamentals	N/A
• Tomatoes, cucumber, eggplant, pepper, peas, French beans	7 days
• Lettuce	7 days

Note

Timing: Apply at the locally established economic injury levels. Observe a 7 day spray interval.

Application Information

Vegetables ground application

Boom, knapsack sprayers and motorized mist blowers are recommended. Use at least 200 lt./ha; thorough coverage of dense foliage requires 500-1000 lt./ha or upto 1000 lt./ha. Use spray volumes of between 500 - 11000 lt./ha depending on crop canopy and density.

Ornamentals

Knapsack sprayers and motorized mist blowers are recommended. Use at least 1000-1500 lt./ha. Make sure the spray equipment is properly calibrated to give even distribution at the correct dose and volume. After use clean all spray equipment thoroughly with water.

Mixing

¼ fill the spray tank with water, then add the required quantity of product. Apply within a few hours after mixing. Prepare no more spray mixture than is needed for the immediate operation. Only prepare the required spray solution for the spray operation to avoid disposal problems.

Note:

Wet the whole plant thoroughly but avoid run-off and spray drift to non-target sites. Treat only when there is little or no wind.

Do not overdose by overlapping applications or by exceeding the recommended rate. Avoid spraying during the hot hours of the day, if the foliage is wet or rain is imminent.

Compatibility

Chess® is miscible with most standard insecticides or fungicides with neutral reaction. In case of doubt a physical compatibility test should be carried out.

Resistance Management

Rotate **Chess**® with products with different modes of action like **Actara**® or **Pegasus**® for the control of whiteflies and aphids.

Operator Safety

AVOID contact with skin, eyes or clothing with concentrate or spray mixture. DO NOT breathe spray mist. DO NOT eat, drink or smoke while working with crop protection products. Wash contaminated hands and face with soap and water. If any disposition occurs, stop work, follow first aid measures, and call a physician.

WEAR protective clothing during preparation and application, i.e., for mixing/loading: impermeable gloves, face mask; for application: overalls, hat or cap; face mask, gumboots and impermeable gloves. IF CONTAMINATION OCCURS with concentrate or spray mixture, immediately wash skin thoroughly, flush eyes several times with abundant fresh water, and remove contaminated clothing. AFTER USE, thoroughly clean protective equipment and wash entire body and change clothing. Wash contaminated clothing before re-use.

WHO Class:

III (the product is unlikely to present acute hazard in normal use)

Notice to User

This pest control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use or store a pest control product under unsafe conditions.