



TECHNICAL DATA BULLETIN

PRODUCT TECHNICAL INFORMATION AND APPLICATIONS

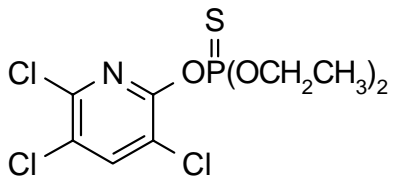
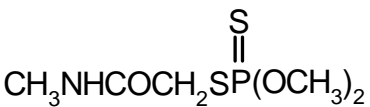
DRAGOCOMBI 500EC

(Chlorpyrifos + Dimethoate, 278 + 222 g/L EC)

1. INTRODUCTION:

DragoCombi 500EC is an emulsifiable concentrate formulation of the two active ingredients chlorpyrifos and dimethoate. It is used as an insecticide and acaricide for the control of a wide range of pests in a large number of agriculture crops and ornamental plants.

2. ACTIVE INGREDIENTS:

Common name	Chlorpyrifos	Dimethoate
Chemical Group	Organophosphate	Organophosphate
CAS Registry No.	2921 - 88 - 2	60 - 51 - 5
Molecular Formula	C ₉ H ₁₁ Cl ₃ NO ₃ PS	C ₅ H ₁₂ NO ₃ PS ₂
Structural Formula		
Molecular weight	350.6	229.3
Vapour Pressure	2.7 mPa at 25°C	0.25 mPa at 25°C
K_{ow} log P	4.7	0.704
Acute oral LD₅₀, Male rat	135 - 163	387



3. PHYSIOCHEMICAL PROPERTIES OF THE PRODUCT:

Assay:	- Chlorpyrifos: 278 ± 13.9 gm / L
	- Dimethoate: 222 ± 11.1 gm / L
Appearance:	Clear light brown liquid free of visible impurities
Odour:	Characteristic
Density (Kg/L):	1.080 - 1.100
Acidity as H₂ SO₄:	0.5% (w/w) max
Water contents:	0.2% (w/w) max
Flash point:	38°C

4. MODE OF ACTION:

DragoCombi 500EC is a cholinesterase inhibitor. It is a ready made mixture of the two active ingredients dimethoate, the systemic and contact insecticide-acaricide with a good residual effect and chlorpyrifos which has a contact, stomach and respiratory action.

5. USES:

DragoCombi 500EC combines the contact, stomach and vapour actions of chlorpyrifos with systemic and good residual effect of dimethoate. This property makes **DragoCombi 500EC** an excellent choice in pest control situation that include a complex of sucking and chewing pests.

DragoCombi 500EC can be used for the control of a large number of pests including mites, aphids, white-flies, leaf-miners, scales, mealy-bugs, thrips, ants, leafhoppers, bollworms, bollweevil, grasshoppers, leafhoppers and many others.

DragoCombi 500EC is used in a wide range of agricultural crops and ornamental plants including tomatoes, potatoes, eggplant, lettuce, peppers, turnip, cabbage, cauliflower, beans, okra, onions, garlic, soybeans, sunflower, wheat, barley, cotton, cucurbits, dates, citrus trees, mango, stone fruits, apple, grapes, turf, forest trees and ornamentals.



6. APPLICATION:

DragoCombi 500EC is applied as a spray after being diluted with water. The application rate and frequency of application are dependent on the target pest/s and the degree of infestation. However, the following table can be used as a guide for the application of **DragoCombi 500EC**:

Recommendations For Use:

Crops	Target Pest	Application rate
Vegetable crops: <i>Tomatoes, potatoes, egg-plant, pepper, turnip, cabbage, cucurbits, lettuce onions, garlic, orka & beans</i>	<i>Aphids, mites, thrips, leafminers, potato tuber moth, leafhoppers and worms</i>	<i>150 - 250 ml/100 L of water. The application can be repeated after 14 days</i>
Field crops: <i>Wheat, barley and corn</i>	<i>Aphids, bugs and caterpillars</i>	<i>1.5 - 2.0 L/ha</i>
<i>Alfalfa</i>	<i>Aphids, leafhoppers and caterpillars</i>	<i>150 - 200 ml/100 L of water</i>
<i>Date palm and citrus trees</i>	<i>Scales, white ants, date palm weevil and leafminers</i>	<i>150 - 250 ml/100 L of water</i>
<i>Stone fruits, pome fruits and grapes</i>	<i>Aphids, scales, leaf blister moth and mealybugs</i>	<i>150 - 200 ml / 100 L of water</i>
<i>Ornamental plants and forest trees</i>	<i>Aphids, white-flies and caterpillars.</i>	<i>150 - 250 ml /100 L of water</i>

7. WITHHOLDING PERIOD:

All livestock should be kept out of the treated area for at least 14 days after treatment.

8. HARVEST INTERVAL:

The harvest interval for this product ranges from 7 - 35 days, depending on the treated crop, details are shown in the product label.



9. COMPATIBILITY:

DragoCombi 500EC can be tank mixed with other pesticides. However, it is incompatible with alkaline materials and sulfur-based formulations.

10. PHYTOTOXICITY:

DragoCombi 500EC is not phytotoxic to most plant species when used as recommended. However, poinsettias, azaleas, roses, lemon, peach, fig, olive, beans, tomatoes and pine may be injured. For such plants it is always advisable to carry out small test for phytotoxicity before large scale application.

11. HANDLING, STORAGE AND TRANSPORTATION:

Personnel handling **DragoCombi 500EC** should wear proper protective clothing including overall, protective gloves and respirators. The product should be stored in its original containers in a cool dry and ventilated store away from sparkler heat devices. It must be kept under lock and key away from food stuffs and animal feed.

DragoCombi 500EC should be transported in clearly labeled leaf-proof containers.