



TECHNICAL DATA BULLETIN

PRODUCT TECHNICAL INFORMATION AND APPLICATION

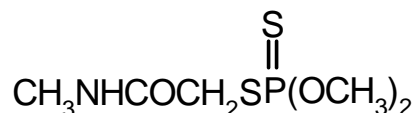
DRAGO[®] 400EC (DIMETHOATE 40%)

1. INTRODUCTION:

Drago 400 EC is an emulsifiable concentrate formulation of the Organophosphorus compound Dimethoate. It contains 400 g/L of the active ingredient *Dimethoate*. It is used as an insecticide for the control of a wide range of insect pests in a number of agricultural crops.

2. ACTIVE INGREDIENT:

Common Name: Dimethoate
CAS Registry No: 60-51-5
Molecular Formula: C₅ H₁₂ NO₃ PS₂
Molecular Weight: 229.3
Chemical structure:



Vapour Pressure: 0.25 mPa (25 °C)
Acute, Oral LD₅₀ for rat: 387 mg/Kg

3. PHYSIOCHEMICAL PROPERTIES OF THE FORMULATION:

Appearance: Clear, blue liquid with characteristic odour
Density: 1.045 – 1.055 Kg/L
Acidity (pH) as H₂ SO₄ (% w/w): 0.19 % w/w
Water contents (% w/w): <0.1% w/w
pH (5% emulsion in standard
Hard water 342 ppm) 3.1
Flash Point: 36.7 °C



4. MODE OF ACTION:

Drago 400EC contains the active ingredient Dimethoate which is an organophosphorus insecticide and acaricide. It is a cholinesterase inhibitor. It has systemic, contact and stomach activity with good residual effect.

5. USES:

Drago 400EC is used for the control of a wide range on insect pests in a number of agricultural crops. It has a quick knock-down effect and systemic activity which lasts for up to 14 days. Pests controlled by **Drago** 400EC include aphids, mites, scale insects, leaf miners, leaf hoppers, thrips, loppers and many others.

Drago 400EC is used in wheat, barley, alfalfa, apples, melons, potatoes, grapes, citrus, cotton, soybeans, beans, lettuce, tomatoes and ornamentals.

6. PHYTOTOXICITY:

Drago 400EC Non-phytotoxic when used as directed, except to some varieties of lemon, peach, fig, olive, walnut, hop, tomato, bean, cotton, and pine. Russetting is possible with Red Delicious and Golden Delicious apples, and with some ornamentals..

7. COMPATIBILITY:

Drago 400EC is incompatible with alkaline materials and with sulfur-based formulations..

8. APPLICATIONS:

Drago 400EC is applied as a spray after being diluted with water. For most pests **Drago** 400EC is applied when pest is first seen and repeated after 2 – 3 weeks or whenever necessary. The following table can be used a guide for applying **Drago** 400EC



Recommendations for Use		
Crop	Pest	Application Rate
Vegetables: Tomato, Pepper, Potato, Cucumber, Watermelon, Lettus, Okra, Onion, and Cabbage	Aphids Thrips, Whitefly, Mites, Jassids	75-100 ml / 100 L of water
Fruit Trees: Citrus, Olives, Date Plam, Grapes, Pomagranate, Apples, Apricot Goava and Mango	Aphids, Leafminers, Mites, Thrips, Jassids, Mealybug, Scales	75-100 ml / 100 L of water
Field Crops: Wheat, Barley, Sorghum and alfalfa	Aphids, Mites, Jassids and Thrips	1 Liter / ha
Ornamentals	Aphids, Thrips	75-100 ml/100 L of water

9. PREHARVEST INTERVAL:

Latest applications before harvest varies from one crop to another. Following are the recommendation for some crops.

<u>Crops</u>	<u>HI (days)</u>
Apples and pears	35
Protected lettuce	38
Cereals	14
Tomatoes	07



10. MAXIMUM RESIDUE LEVELS (MRL):

<u>Crops</u>	<u>MRL in mg/Kg</u>
Citrus fruits, cucumber lettuce, beans and cauliflowers	2
Pome fruits, grapes, bananas, carrots onions, peppers, peas and aborigines	1
Potatoes	0.05

11. HANDLING, STORAGE AND TRANSPORTATION:

Drago 400EC Protective clothing should be provided for all personnel handling. Adequate washing facilities should be available at all times during handling of the product. Eating, drinking and smoking should be prohibited during handling and before thorough washing after use.

Drago 400EC should be transported in clearly labeled rigid or leak-proof containers and stored in these containers, under lock and key, secure from access by unauthorized persons and children.