



## TECHNICAL DATA BULLETIN

### PRODUCT TECHNICAL INFORMATION AND APPLICATIONS

# COBRA<sup>®</sup> 400EC

(Methidathion 400 g/L "EC")

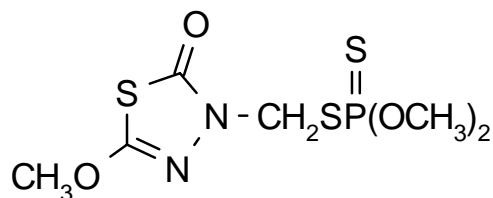
#### 1. INTRODUCTION

COBRA 400EC is a non-systemic organophosphorus insecticide / acaricide with stomach and contact action in the form of an emulsifiable concentrate formulation. It contains 400 g/L of the active ingredient Methidathion. COBRA 400EC is used to control a variety of insects and mites in many crops such as fruits, vegetables, alfalfa, and sunflowers, and also in greenhouses and on rose cultures. It is especially useful against scale insects. It works by inhibiting certain enzyme actions in the target pests.

#### 2. ACTIVE INGREDIENT

Common Name:	Methidathion
Chemical Group:	Organophosphorus
Chemical Name	S-2,3-dihydro-5-methoxy-2-oxo-1,3,4-thiadiazol-3-ylmethyl O,O-dimethyl phosphorodithioate;3-dimethoxyphosphinothioylthiomethyl-5-methoxy-1,3,4-thiadiazol-2(3H)-one (IUPAC)

Chemical Structure:



Molecular Formula:	C <sub>6</sub> H <sub>11</sub> N <sub>2</sub> O <sub>4</sub> PS <sub>3</sub>
CAS Registry Number:	950-37-8
Relative Molecular Mass:	302.3

K <sub>ow</sub> Log P:	2.2 (OECD 107)
Vapour Pressure:	2.5 × 10 <sup>-1</sup> mPa at 25°C

### 3. PHYSIOCHEMICAL PROPERTIES OF THE PRODUCT

Assay	"Methidathion" 400 g/L
Appearance	Light brown to yellow liquid free from visible impurities.
Odour	Strong aromatic odour
Water Contents	< 0.2 %
Flammability	Not flammable
Flash Point	> 40 °C
Explosivity	Not explosive
Solubility in Water:	Forms emulsion

### 4. MODE OF ACTION

COBRA 400EC is a non-systemic insecticide and acaricide with contact and stomach action. It works by inhibiting certain enzyme actions in the target pests

### 5. USES

COBRA 400EC Controls a wide range of sucking and chewing insects (especially scale insects) and spider mites in many crops, e.g. pome fruit, stone fruit, citrus fruit, vines, olives, hops, cotton, potatoes, beet, alfalfa, oilseed rape, maize, sunflowers, safflowers, tobacco, hazels, and some vegetables, at 30-60 g/hl.

## 6. APPLICATIONS

### *Recommendations for Use*

<b>Crop</b>	<b>Pest</b>	<b>Application Rate</b>	<b>PHI</b>
Date Palm	Scale Insects, Mealybugs	150 ml / 100 L water	56 days
Deciduous trees, Citrus, Olives and Grapes	Scale Insects, Mealybugs	150 ml / 100 L water	30 days
	Aphids, mites, Codling moth, Psylla	75 – 150 ml / 100L water	30 days
Ornamentals	Scale Insects, Mealybugs	150 ml / 100 L water	
	Aphids, Mites, Caterpillars, Whitefly	75 – 150 ml / 100 L water	

## 7. COMPATIBILITY

COBRA 400EC. Mixing with alkaline materials may reduce effectiveness.

## 8. HANDLING, STORAGE AND TRANSPORTATION

COBRA 400EC should be transported its original labeled, tightly closed container and stored in a dry well ventilated store at room temperature and away from direct sunlight. It should also be kept away from children, animals, food, feed and drinks and unauthorized personnel. Personnel involved in handing this material should wear protective gloves, clean protective clothing and a facemask.