



## TECHNICAL DATA BULLETIN

### PRODUCT TECHNICAL INFORMATION AND APPLICATIONS

## ETHIO<sup>®</sup> 400EC

(ETHION 40%)

### 1. INTRODUCTION:

**Ethio<sup>®</sup>400EC** is an emulsifiable concentrate formulation of the Organophosphorus acaricide insecticide "Ethion". It contains 400 g/L of the active Ingredient Ethion. It is used as an acaricide and insecticide for the control of a wide range of mites and sucking insect pests in agricultural crops.

### 2. IDENTIFICATION

#### Common name

#### Ethion

Chemical Group

Organophosphorus

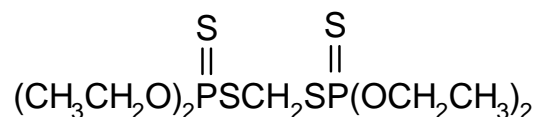
CAS Registry No.

563-12-2

Molecular Formula

$C_9H_{22}O_4P_2S_4$

Structural Formula



Molecular weight

384.5

Vapour Pressure

0.20 mPa (25°C)

$K_{ow}$  log P

4.28

Acute oral LD<sub>50</sub>, Male rat

208 mg/kg

### 3. USES

Ethio<sup>®</sup>400EC is an Agricultural: Insecticide used to kill aphids, mites, (including Eriophyd mites), scales, thrips, leafhoppers, maggots and foliar feeding larvae. It may be used on a wide variety of food, fibre and ornamental crops, including greenhouse crops, lawns and turf. Ethion is often used on citrus and apples. Also used as a tickicide on cattle.

Ethio<sup>®</sup> 400EC is used for the control of spider mites, aphids, scale insects, thrips, lepidopterous larvae, leafhoppers, sucking insects, soil-dwelling and other insects on a large number of crops such as vegetables, cereals, fruit trees citrus and ornamentals.

### 4. MODE OF ACTION:

Non-systemic acaricide and insecticide with predominantly contact action. Cholinesterase inhibitor.

### 5. PHYTOTOXICITY:

Ethio<sup>®</sup> 400EC is not phytotoxic when used as directed, except to some varieties of apple (particularly early maturing varieties like Early McIntosh).

### 6. COMPATIBILITY:

Ethio<sup>®</sup> 400EC is compatible with many pesticides, Except Cu and alkaline pesticides. However, a small test for compatibility has to be carried out before mixing in large quantities.

### 7. APPLICATIONS:

Ethio<sup>®</sup> 400EC is applied when mites or insects appear and repeated as necessary. It is applied as a foliar spray after being diluted in water. Ethio 400EC is recommended to be applied at the rate of 50 g a.i./ha i.e., 0.1 – 0.6 L product/ha.

The Following Table can be used as a guide for application:

**Recommendations for Use**

<b>CROPS</b>	<b>TARGET PEST S)</b>	<b>APPLICATION RATES</b>	<b>PHI</b>
<b>Citrus</b>	Mites, Scale Insects	200-250 ml/100 L of water	Oranges & Grapefruits 0 days. Other citrus 14 days
	Aphids, Caterpillars	175-200 ml/100 L of water	
<b>Orchards:</b> Fruit trees, Dates palms Pome and stone fruits	Mites, Scale Insects	200-250 ml/100 L of water	14 days
	Aphids, Scale Insects	150-175 ml/100 L of water	
<b>Vegetables</b>	Mites, Whitefly	200-250 ml/100 L of water	14 days
	Thrips, Aphids, Caterpillars	175-200 ml/100 L of water	
Field and forage crops	Aphids, Mites	175-200 ml/100 L of water	14 days
	Caterpillars	2.5 L / hectare	
Ornamentals and cut flowers	Mites, Thrips	200-250 ml/100 L of water	14 days
	Caterpillars	175-200 ml/100 L of water	

**8. WITHHOLDING PERIOD:**

Varies with the crop (from 0 – 14 days). For details please refer to the product label.

**9. HANDLING, STORAGE AND TRANSPORTATION:**

When handling Ethio<sup>®</sup>400EC wear protective neoprene gloves, cotton overalls, and rubber boots. Keep Ethio<sup>®</sup>400EC in its original tightly closed container in a cool dry place out of reach of children and away from feed and food products.