ASTRA INDUSTRIAL COMPLEX CO., LTD. (**ASTRACHEM**)
P.O. BOX 30447, AL-KHOBAR 31952
KINGDOM OF SAUDI ARABIA
www.astra-agri.com.sa

أســتراكيـــم

TECHNICAL DATA BULLETIN

PRODUCT TECHNICAL INFORMATION AND APPLICATIONS

HUNTER® *200EC*

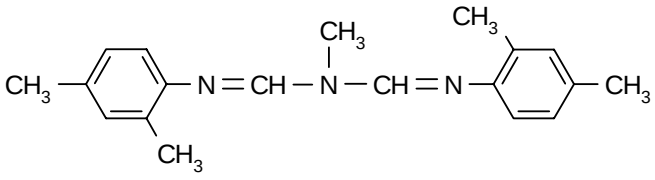
Amitraz 200 g/L "EC"

1. INTRODUCTION

HUNTER® *200EC* is an emulsifiable concentrate formulation containing 200 g / Liter of the active ingredient Amitraz, which is a triazapentadiene compound, a member of the amidine chemical family. It is used as an acaricide / insecticide with contact activity for control of all stages of *Tetranychid* and *Eriophyid* mites, pear suckers, scale insects, Mealybugs, whitefly, aphids and eggs and first instar larvae of *Lepidoptera* on pome fruits, stone fruits, citrus, cotton, strawberries, hops, cucurbits, capsicums, tomatoes, ornamentals and some other crops. Also used as an animal ectoparaciticide to control ticks, mites and lice on cattle, dogs, goats and sheep.

The EPA classifies **Amitraz** as Class III - slightly toxic. However, **Hunter®** 200EC bears the SIGNAL WORD: **CAUTION**.

2. ACTIVE INGREDIENT

Common name	***Amitraz***
Chemical Group	Amidine – Acaricide / Insecticide
CAS Registry No.	33089-61-1
Molecular Formula	$C_{19}\ H_{23}\ N_3$
Structural Formula	
Molecular weight	293.4
Vapour Pressure	0.34mPa @25°C
K_{ow} log P	5.5 (25°C, pH 5.8)
Acute oral LD_{50}, Male rat	650 mg/kg

Exposure Guidelines:

- **ADI:** 0.003 mg/kg (human).
- **RfD:** 0.0025 mg/kg/day.
- **NOEL:** 0.25 mg/kg/day (dog); 3 mg/kg/day (rat)

3. PHYSIOCHEMICAL PROPERTIES OF THE PRODUCT:

Assay	"Amitraz" 200 ± 20 g/L
Appearance:	Clear Yellow Liquid free of visible impurities
Odour:	Aromatic
Density:	0.931 ± 0.006 Kg / L
Acidity as H_2SO_4:	<1.0 g / Kg
Flammability:	Flammable
Flash Point:	33°C
Water contents:	<2.0 g/Kg
Explosivity:	Not Explosive
Corrosivity:	Corrosive to Iron

Emulsion and Storage Stability data:

Initial Emulsification:	Complete
Emulsion Stability (2h):	Stable
Re-emulsification (24h):	Complete
Emulsion Stability:	0.5 ml oil
Heat Stability (2wks @54°C):	Passed
Cold Stability	Passed

- Emulsion tests were carried out according to MT 36.1.1; CIPAC; F; p: 108-110 using CIPAC Standard Water D (342 ppm $CaCO_3$)
- Heat Stability was carried out according to MT 46.1.3, CIPAC, F, p. 150.
- Cold Stability was carried out according to MT 39.1, F, p. 128-129.

4. MODE OF ACTION:

Hunter 200EC is a Non-systemic, Acaricide / Insecticide with contact and respiratory action. Expellent action causes pests to withdraw mouthparts rapidly and fall off the host, probably involves an interaction with octopamine receptors in the nervous system, causing an increase in nervous activity.

ASTRA INDUSTRIAL COMPLEX CO., LTD. (**ASTRACHEM**)
P.O. BOX 30447, AL-KHOBAR 31952
KINGDOM OF SAUDI ARABIA
www.astra-agri.com.sa

5. USES:

Hunter 200EC is used for the control of all stages of *Tetranychid* and *Eriophyid* mites, pear suckers, scale insects, Mealybugs, whitefly, aphids, and eggs and first instar larvae of *Lepidoptera* on pome fruit, citrus fruit, cotton, stone fruit, bush fruit, strawberries, hops, cucurbits, capsicums, tomatoes, ornamentals, and some other crops. Also used as an animal ectoparasiticide to controls ticks, mites and lice on cattle, dogs, goats, pigs and sheep.

6. APPLICATION:

Hunter® 200EC is applied using any conventional sprayer at the rate of 75 – 250 ml / 100 L of water.

The following table can be used as a guide for the application of **Hunter**® 200EC

Recommendations for Use

Crop	Pest	Application rate	PHI
Vegetables: Tomato, Eggplant Cucumber, Squash, peppers, pumpkin, watermelon, and strawberry	Mites, aphids, whitefly, Leafhoppers, moth eggs and caterpillars.	150-250 ml /100 L water	21 days
Fruit Trees: Stone fruits, Pome fruits, Citrus and Dates Palm.	Mites, aphids, scale insects, whitefly, Leafhoppers, moth eggs & caterpillars.	150 ml /100 L water	28 - 35 days
Ornamentals	Mites, aphids and whitefly.	75-100 ml /100 L water	

7. COMPATIBILITY:

Hunter 200EC is incompatible with alkaline materials, *parathion* and others.

8. PHYTOTOXICITY:

Hunter 200EC is not phototoxic if used as recommended. However at high temperatures, young capsicums and pears may be injured

9. PRE-HARVEST INTERVALS:

Per-Harvest interval varies from 21 – 35 days depending on dose and crop type.

10. HANDLING, STORAGE AND TRANSPORTATION:

Hunter® 200EC 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 handling this material should wear protective gloves, clean protective clothing and a facemask.