



TECHNICAL DATA BULLETIN

PRODUCT TECHNICAL INFORMATION AND APPLICATIONS

TRAX[®] 220EC

"Lambda-Cyhalothrin + Tetramethrin + Piperonyl Butoxide"
(20 + 40 + 160) g/L EC

1. INTRODUCTION:

Trax 220EC is an emulsifiable concentrate formulation of lambda-Cyhalothrin, Tetramethrin and PBO, It contains 20, 40 and 160 g/L of each of these materials respectively. This product is used as an insecticide for the control of insect pests in public health.

2. ACTIVE INGREDIENTS:

Common name	Lambda-Cyhalothrin	Tetramethrin	PBO
Chemical Group	Pyrethriod	Pyrethriod	-
CAS Registry No.	91465-08-6	7696-12-0	51-03-6
Molecular Formula	C ₂₃ H ₁₉ Cl F ₃ NO ₃	C ₁₉ H ₂₅ NO ₄	C ₁₉ H ₃₀ O ₅
Molecular weight	449.9	331.4	338.4
Vapour Pressure	2x10 ⁻⁴ mPa @ 20°C	2.1 mPa @ 25°C	2x10 ⁻² mPa @ 60°C
K _{ow} log P	7 @ 20°C	4.6 @ 25°C	4.75
Acute oral LD ₅₀ , Male rat	79 mg/kg	>5,000 mg/kg	7,500 mg/Kg



3. PHYSIOCHEMICAL PROPERTIES OF THE PRODUCT:

Assay	Lambda-Cyhalothrin 20.0 g/L
	Tetramethrin 40.0 g/L
	PBO 160.0 g/L
Appearance	Clear colorless liquid free of visible impurities
Odour	Slight aromatic
Density	0.9643 g/ml
Flash Point	46°C
Water contents	810 ppm
Acidity as H ₂ SO ₄	<10 ppm
Viscosity	9.4 cP

4. MODE OF ACTION:

Trax 220EC is a fast acting non-systemic insecticide with contact and stomach action. It has a rapid knock down and long residual activity

5. USES:

Trax 220EC is used as an Ultra Low Volume (ULV) spray or thermal fog for the control of mosquitoes and flies in public health.

6. APPLICATION:

Trax 220EC is applied as a ULV spray of thermal fog. The product is applied after being diluted with water or a suitable carrier such as Diesel oil or Kerosene.



The following table can be used as a guide for the application of **Trax 220EC**

Pests	Application Method	Application Rate
Flying insects such as flies and Mosquitoes	ULV application	Dilute the products with a suitable carrier such as Diesel oil or Kerosene at 1:19 and apply at the rate of 0.5 L/ha
	Thermal Fogging	Dilute the product in a suitable carrier such as Diesel oil or Kerosene at 1:2,000 and apply at 50 L/ha

7. COMPATIBILITY:

Trax 220EC is compatible with other pesticides. However, small mixture should be made and tried before mixing large quantities.

8. HANDLING, STORAGE AND TRANSPORTATION:

Trax 220EC 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.