



TECHNICAL DATA BULLETIN

PRODUCT TECHNICAL INFORMATION AND APPLICATION

DECIBAN[®] 20ULV

(Deltamethrin 20g/L "ULV")

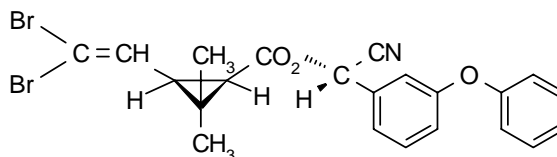
1. INTRODUCTION:

DECIBAN 20ULV is an Ultra-low volume (ULV) liquid concentrate formulation containing 20 g/L of the synthetic pyrethroid *Deltamethrin*. **DECIBAN** 20ULV is used for the control of locust and other flying insect pests in large areas through ULV applications.

2. ACTIVE INGREDIENT:

Common Name: "Deltamethrin"
Chemical Group: Pyrethroid
CAS Registry No: 52918-63-5
Molecular Formula: C₂₂H₁₉Br₂NO₃
Molecular Weight: 505.2
Chemical Name: (S)- α -cyano-3-phenoxybenzyl
(1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate
(IUPAC)

Chemical structure:



Vapour Pressure: 1.24 X 10⁻⁵ mPa (25 °C, gas saturation method)
Acute, Oral LD₅₀ for rat: 135 - >5000 mg/Kg

3. PHYSIOCHEMICAL PROPERTIES OF THE FORMULATION:

Assay: "Deltamethrin" 20 ± 3 g/L
Appearance: Clear Light Yellow to brown Liquid free of visible impurities
Density: 0.9535 Kg/L
Acidity as H₂SO₄ (g/Kg): 9.8 x 10⁻⁴% w/w
Flash Point: 49°C
Water contents: 0.0329% w/w



4. MODE OF ACTION:

Deciban 20ULV is a fast acting non-systemic insecticide with contact and stomach action. As a pyrethroid it prevents the sodium channel from functioning so that no transmission of nerve impulses can take place..

5. USES:

Deciban 20ULV can be used for the control of various insect pests on agricultural crops, fruit trees, vegetables, ornamentals and lawns. It is recommended for use against public health pests and locust.

6. APPLICATIONS:

Deciban 20ULV is used as a ULV spray, after being diluted with Kerosene, diesel oil or C-deck according to the following table.

Pest	Uses	Rate of Use
Locust, Plant hoppers	ULV – airplanes	0.625 L/ha
	ULV	625 ml mixed with 375 ml solvent (0.5 L/ha)

7. COMPATIBILITY:

Deciban 20ULV There are no known incompatibilities with other common insecticides and fungicides. However it is not recommended for mixing with other pesticides.

8. PHYTOTOXICITY:

Deciban 20ULV is not phytotoxic when used according to the recommendations stated in the product label

9. PREHARVEST INTERVAL:

The Preharvest interval ranges between 10-21 days depending on the treated crop if sprayed directly on vegetation.



10. HANDLING, STORAGE AND TRANSPORTATION:

Deciban 20ULV should be transported and stored in clearly labeled original containers, under lock and key secured from access by unauthorized persons and children. No food or drink should be stored in the same compartment. Full protective clothing, including impermeable boots, clean overalls, gloves and respirators should be provided for all personnel handling this product.

11. SPECIAL PRECAUTIONS

DECIBAN 20ULV should not be sprayed on crops suffering from drought or other physical stress.