



I N D I A

Conscious Care.

PERMEBASE

EW insecticide containing permethrin and tetramethrin synergised with piperonyl butoxide.

Without solvents and with a very low content of emulsifiers.

The lowest environmental impact against any EC or ME insecticide.

Public Health product - Italian Ministry of Health Reg. No. 19558

Composition – 100 g contain

Permethrin (94% min.)	13 g (134.94 g/l)
Tetramethrin (92% min.)	1 g (10.38 g/l)
Piperonyl Butoxide (94% min.)	4.85 g (50.34 g/l)
Co-formulating agents and water	up to 100 g

PERMETHRIN family	II type pyrethroids (with lethal effect, stable to light)
Mode of action	By contact and ingestion
Insecticidal activity	Gives an irreversible effect following an alteration of nervous impulse transmission
Target insect development phase	All larval and adult phases
TETRAMETHRIN family	1 type pyrethroid, non-photostable, non-persistent
Mode of action	Mainly by contact
Activity	Gives a neurotoxic effect
Insect development phase to control	All larval and adult phases
PIPERONYL BUTOXIDE family	Methylendioxyphenol derivative
Mode of action	Protects 1 type pyrethroids from enzyme degradation
Effects on insecticidal activity	Contributes to the penetration of a pyrethroid into the insect body

Formulation

PERMEBASE is formulated as a concentrated emulsion in water (EW). This type of formulation is obtained by using a very small amount of emulsifiers and no solvents. Moreover, the emulsifiers have been selected among those classified as “non dangerous”. PERMEBASE, therefore, secures insecticidal efficacy combined with reduced release of chemical substances in the environment, apart from the active ingredients and piperonyl butoxide. PERMEBASE, as a result, has an environmental impact and toxicity for people definitely lower than those of common ME and EC insecticides. Moreover, it is not irritating. A peculiarity of EW insecticides is that they must be shaken well before use.

Sphere of application and main target pests

PERMEBASE is effective against flying and crawling insects and is suitable for both outdoor and indoor applications. A non-exhaustive list of possible premises that can be treated with PERMEBASE includes schools, hospitals, cinemas, theatres, camping-sites, hotels, houses, industries, warehouses, canteens, restaurants, means of transport.

Dilution rates and directions for use



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PERMEBASE can be diluted from 0.5% to 2.5%. In the following chart a few possible dilution rates are given, according to common application practice:

Field of application ⇒	Outdoors (turboatomiser applications)	Indoor (surface treatment with low pressure pumps)	Indoors (spraying)
Insect pests ↓			
Mosquitoes, chironomid midges, wasps, flies, moths	0.5%-1%		1%-1.5%
Cockroaches, ants, fleas, bedbugs		1.5%-2% 1 litre of solution every 15-20 square metres	
Thermal fogging treatments			10% in propylene glycol 1 litre of solution every 3000 cubic metres

SHAKE WELL THE CONCENTRATED PRODUCT BEFORE USE

Toxicity of the active ingredients

PERMETHRIN	LD50 acute oral rat approx. 4000 mg/kg
TETRAMETHRIN	LD50 acute oral rat >4640 mg/kg
PIPERONYL BUTOXIDE	LD50 acute oral rat >7500 mg/kg

Warning

For the proper use of the product read the label carefully. Read and keep the MSDS. Do not contaminate people, animals, foodstuffs, beverages and their containers with the product. The manufacturer assumes no responsibility towards third parties. Those who use the product are responsible for any damage resulting from its use.