

People who use pesticides daily at their homes (indoor) are the ones paranoid about farmers using pesticides in the farms outdoor!



Paradoxical.

Popular brands of household pesticides used for controlling mosquitoes/cockroaches and name of the chemical pesticide it contains.



Thanks to deceptive use of terms such as **natural, neem, tulsi, lime** and **misleading graphics** in the product packaging and advertisements, most users do not realize that these are actually chemical pesticides. This “cosmetic camouflage” misleads people by ambiguity and creates incorrect impression of the product. This could be held unlawful.



List of pesticides registered in India for household pest control (mosquitoes, cockroaches, termites etc.) under the provisions of Insecticides Act 1968 and Rules 1971.

Sr.no	Household Pesticides	Sr.no	Household Pesticides
1	Alpha Cypermethrin 0.1%	35	Imiprothrin 0.70% + Cypermethrin 0.20%
2	Alpha Cypermethrin 0.50%	36	Imiprothrin 0.05%+Cypermethrin 1.00%
3	Allethrin 0.50%	37	Imidacloprid 0.03%
4	Allethrin 0.20%	38	Imidacloprid 2.15%
5	Allethrin 4.00%	39	Imidacloprid 21.00%+Beta-cyfluthrin 10.50%
6	Allethrin 5.00%	40	Lambda-cyhalothrin 0.50%
7	Allethrin 3.60%	41	Lambda-cyhalothrin 2.43%
8	Bifenthrin 0.05%	42	Malathion 2.00%
9	Cyfluthrin 10.00%	43	Metofluthrin 0.005%
10	Chlorpyrifos 2.00%	44	Permethrin 2.00%
11	Chlorpyrifos Methyl 40.00%	45	Propetamphos 1.00%
12	Cyphenothrin 7.20%	46	Propoxur 0.75%+ Cyfluthrin 0.025%
13	Cypermethrin 3.00%	47	Propoxur 20.00%
14	Cypermethrin 1.00%	48	Pirimiphos-methyl 1.00%
15	Cyfluthrin 5.00%	49	Pyrethrin 0.05%+ Malathion 01.00%
16	Cyfluthrin 0.025% + Transfluthrin 0.04%	50	Propoxur 2.00%
17	Transfluthrin 1% + Cypermethrin 0.2 %	51	Pyrethrin 0.20%
18	Diflubenzuron 2.00%	52	Propoxur 1.00%
19	Diflubenzuron 20.00%+ Deltamethrin 2.00%	53	Prallethrin 1.00%
20	Diflubenzuron 25.00%	54	Prallethrin 0.04%
21	Deltamethrin 0.05% + Allethrin 0.04%	55	Prallethrin 0.80%
22	Deltamethrin 2.50%+D-trans allethrin 2.00%	56	Prallethrin 0.50%
23	Deltamethrin 0.02% + Allethrin 0.13%	57	Prallethrin 1.20%
24	Deltamethrin 0.50%	58	Prallethrin 19.00%
25	D-Trans Allethrin 0.10% + Permethrin 0.03% + Imiprothrin 0.02%	59	Prallethrin 2.40%
26	Deltamethrin 1.00%	60	S-Bioallethrin 02.40%
27	D-Trans Allethrin 2.00%	61	Thiamethoxam 0.01%
28	D-Trans Allethrin 0.10%	62	Transfluthrin 0.08%
29	D-Allethrin 21.97 %	63	Transfluthrin 0.88% & 01.60%
30	Benzoate 0.10%	64	Transfluthrin 20.00%
31	Fenitrothion 20.00%	65	Transfluthrin 0.03%
32	Fipronil 0.03% & 0.5%	66	Transfluthrin 1.00%
33	Fipronil 0.05%	67	Transfluthrin 1.20%
34	Imiprothrin 0.10%+ Cyphenothrin 0.13%	68	Transfluthrin 12.00%

Source: Major uses of Pesticides Report by CIB&RC (Accessed on 22nd July 2021)



There are as many as **68 pesticides** in various strengths and formulations registered for household pest control - including living room, bedroom and kitchen. They are used mostly keeping the doors and windows closed to retain higher pesticide concentration indoors - unlike the outdoor application of pesticides for crop pest control.

Besides, people’s (including children) exposure to household pesticides is direct and for long duration. Remember, many household pesticides used for mosquito control are more toxic to humans in terms of LD₅₀ than those used in agriculture for crop protection.

Prevalence, distribution and persistence of indoor pesticide residues are not as widely studied as use in the farms. Household pesticides can persist longer indoors as they remain protected from fast environmental dissipation/degradation due to lack of sunlight, temperature, moisture and air currents.

The Paradox

Using pesticides in the house (indoor) is considered as a healthy practice. But, use of pesticides in the farms (outdoor) by farmers is considered as a health hazard! This dichotomy is irrational and absurd.

The frequency and intensity of use of pesticides per unit area indoors is very high in India. According to HICA (Home Insect Control Association), the market for mosquito and cockroach control pesticides is Rs 12,500 cr which is ~50% of crop pest control market's size of Rs 26,000 cr in India.

All pesticides - whether for use in the farms or homes - do undergo extensive safety and efficacy assessment studies by the government authorities before permitting their use. When applied as recommended, they control the target pests without causing unacceptable adverse effects to the users and user environment. Pest control in the farms is as important as pest control in our homes.

The purpose of this infographic is to bring out the facts that are unfamiliar and to clear popular misconceptions about pesticides use.