

Twitter Thread by Ayur Arogyam



Ayur Arogyam

@aayurarogyam



Mosquito Coils & Vapouriser : Passive poison

- Monsoon season do remind about mosquito menace an awful biting army
- Most sought method to repell them are mosquito Coils, Vapouriser and aerosol based spray
- These are nothing but scented slow poison !



- Most of chemical based mosquito repellent are loosely regulated and classified as household insecticide
- The major chemical ingredient is allethrin a harmful type of pyrethroid and it's present in almost all brands
- Inhaling one mosquito Coil = smoking one cigarette

<i>Sample</i>	<i>Active ingredient</i>	<i>Chemical composition</i>	<i>Weight of coil (g) [average $\pm$ SD]</i>	<i>Average weight of ash per coil (g) [average $\pm$ SD]</i>	<i>Average ash generation coefficient (g ash g⁻¹ coil)</i>
Mortein Power Gard	Allethrin	Allethrin (0.1% w/w), wood flour (Q.S.%), coconut shell powder (40.0% w/w), binder starch (10.0% w/w), Genepol LO88 emulsifier (0.1%), fragrance (0.5%), sodium benzoate (0.3%), potassium nitrate (0.1%), jiggat (Joss) (6.0%), red dye (0.1%)	19.7 $\pm$ 0.51a	1.612 $\pm$ 0.31b	0.082
Good Knight Mini Jumbo	Allethrin	Allethrin a.L (0.20% w/w), wood flour (52.80%w/w), coconut shell powder (35.0% w/w), starch (12.0% w/w)	13.49 $\pm$ 0.36b	0.626 $\pm$ 0.13a	0.046
Maxo A-Grade	Allethrin	d-trans allethrin (0.10% w/w), wood flour (52.90% w/w), coconut shell powder (35.00% w/w), binder starch (12.00% w/w)	15.61 $\pm$ 0.31b	0.882 $\pm$ 0.21a	0.057

Notes: Values followed by same letters are not significantly different from each other as per Duncan's multiple range test at 95% level of confidence.

Manufacturers trick the government regulations by enhancing the percentage of composition of it's derivatives as law has loop hole for

composition of allethrin only Not it's derivatives

So called extra strong, plus, jumbo etc should be read as more harmful than normal

ACTIVE INGREDIENT

Es-biothrin.....0.22%

CAUTION

Purposely inhaling the vapor maybe harmful.
Discontinue use if breathing is affected.
Get medical attention if breathing difficulty persists. Avoid catching fire by properly placing lighted coil in an area away from objects that easily burn. Do not touch lighted tip.

WARNING

Do not swallow.
Keep away from children, pets and food.

Another way to trick the regulation is classifying the not permitted additives as other ingredients

Until there is a madrush for powerful insecticide these folks would keep surviving with innovative jargons



Repellent are heavily scented to obfuscate the excessive amount of additive in place plus tricking the users mind using soothing aroma

Is it that harmful to ingest , Yes studies says so

Rats exposed to 12-15 hours of insecticide exhibited symptoms similar to TB