

For Mosquito Control

Where to use Sumilarv® 0.5G?

Apply **Sumilary® 0.5G** at mosquito breeding sites:

Standing water: reservoir, swamp, rain pool, pond, cistern, etc.

Running water: drain, ditch, creek, stream, river, etc.

What amount is required to achieve results?

Standing water:

Sumilarv® 0.5G should be used as shown in the table below, based upon a target concentration of 0.01 - 0.05 ppm A.I. $(2 - 10 \text{ g/m}^3 \text{ of Sumilarv}^{\circ} 0.5\text{G})$.

Running water:

Sumilarv® 0.5G should be used as shown in the table above, based upon a target concentration of 0.01 – 0.05 ppm A.I. (2-10 g/m3 of Sumilarv® 0.5G) against flow volume per hour.

*Running water volume

(t)/hour = width (m) \times depth (m) \times flow rate (m/hour)

Depth (cm)	Sumilarv® 0.5G (kg/ha)
10	2 – 10
20	4 – 20
30	6 – 30
50	10 – 50

*Water volume in the treated area (t) = length (m) × width (m) × average depth (m)

Please Read and Follow Product Label Directions and Precautions Before Use.

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Sumilary®

For Perfect Pest Control, Toward a World without Pest Problems.

As a new generation insecticide, Insect Growth Regulator (IGR), **Sumilarv**®, provides you with a new approach to insectcontrol.

Stop pest propagation with **Sumilarv**®. For nonrecurring populations, no more problem with pests. Forever! Now why **Sumilarv**®? Because it breaks the life cycle of the insect, prevents a pre-adult from maturing into an adult. Thus, it can't reproduce, resulting in a decreased population. If a faster, stronger and longer lasting pest elimination system is desired, **Sumilarv**® should be used in combination witha dulticides. The choice of **Sumilarv**® is a key to success in the control of fly, mosquito, flea and other insect populations

Thanks to Sumilary®

- Lont-term pest population elimination, by subtly altering insects' life cycle.
- At low levels, it promises surprisingly effective control.
- Won't harm man and animals.

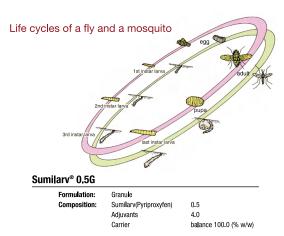
What is Sumilary®?

Sumilarv® is an insect growth regulator with unique mode of action. **Sumilarv**® affects the physiology of morphogenesis, reproduction and embryogenesis of insects. The morphogenetic effect of **Sumilarv**® is primarily seen during larval - pupal or nymphal - adult transformation. Under the presence of **Sumilarv**®, various degrees of incomplete metamorphosis can been seen.

Due to such umique modes of action, **Sumilarv**® prevents successful growth of insect population.

What Happens with the Application of Sumilarv®?

Against flies and mosquitoes, **Sumilarv**[®] inhibits their life cycles at the pupal stages. Where applied, larvae develop normally to pupation, but they cannot become adults. That is, normal maturing into an adult capable of reproduction is inhibited. And thus, the target population gradually decreases.



At Low Levels, It Promises Surprisingly Effective Control.

Sumilarv® is much more effective than organophosphates, pyrethroides or other IGR against larvae of flies and mosquitoes, being active at substantially lower rates. Moreover, it provides the long-lasting control you have been seeking.

If combined with adulticides, you can easily attain optimum perfect pest control.

High Performance in the Field

Sumilarv® has demonstrated its high potency in fiel tests. **Sumilarv**® **0.5G** is effective against flies in awaste treatment facility at a rae of 40g per square meter. Furthermore, a pig

house trial showed that Sumilarv® 0.5G combined with an adulticide space spray gave more rapid and complete control of flies. Similarly, with mosquito control, Sumilarv® provided 100% inhibition of emergence for 12 weeks in afire pond. This powerful larvicidal action allows long term control of flies and mosquitoes, thus promoting a more healthy and comfortable environment for all to enjoy.

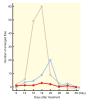
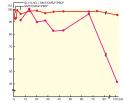


Fig.3 Field evaluation of Sumilarv[®] for flies in a waste treatment facility • Sumilarv[®] 0.5G 40g/m² (0.2g A1/m²) • Diflubenzuron 29WP 4g/21/m²(1g A1/m²)







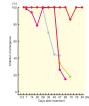
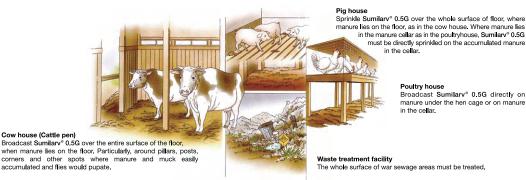


Fig.5 Field evaluation of Sumilary® for mosquitoes in a fire pond (24m®) • Sumlary® 0.5G 20g/m® (2.1 ppm A.1 • Sumlary® 0.5G 10g/m® (2.05 ppm A.1) • Methoprene 10F 50j/m® (0.5 ppm A.1) • Dituberzume 200/ppm 200 5 ppm A.1

For Fly Control

Where to use Sumilary® 0.5G?

Sprinkle **Sumilarv® 0.5G** all over housefly breeding sites such as livestock and poultry houses or waste treatment facilities, as uniformly as possible.



When and how often to use Sumilarv® 0.5G?

The time required for fly growth depends upon temperature. For a housefly, it takes about 10 days at 25°, from egg-laying to thebirth of a new fly. The higher the temperature, the faster it develops. Where it is below 10° or beyond 35°, they can't breed. **Sumilarv® 0.5G** must be applied at the beginning of fly propagation, to attain the most effective control. For example, it should be applied before the adult fly population reaches a nuisance level as follows:

- ♦ 4 5 flies/board (m²) in a poultry house
- ♦ 4 5 flies/head in a pig house
- ♦ 12 25 flies/head in a cow house
- If the manure depth is over 20 cm, another Sumilarv® 0.5G treatment is required.

What amount is required to achieve results?

Sumilarv® 0.5G should be applied at the rate of 20g/m² single application or at 10g/m², double applications with 2 weeks interval.

Poultry house (80 m × 10 m) ≥ 8 kg/house
 Farrowing unit (2 m × 3 m) ≥ 60 g/unit
 Breeding pen (4 m × 5 m) ≥ 200 g/pen
 Others ≥ 10 g/m²

How to use?

Sumilary® 0.5G can be easily applied manually or by machinery.



Hand granule aprader Effective reach: 5 – 8 m Outlet capacity: - 4 kg/min



Blower with granule nozzle (with engine) Effective reach: 15 m Outlet capacity: -12 kg/min



Crawler mount type power granuler
Horizontal throw (in still ail): 30 m
Vertical throw (in still air): 20 m
Outlet capacity: -25 kg/min

Recommended control system against houseflies, by the combination of Sumilarv® 0.5G and adulticides

To reduce the overall fly population more quickly and surely, one needs an effective control system. A combination of Sumilarv® 0.5Gwith adulticides offers such a system.