Baytex 1000 EC

Active Ingredients:
Fenthion 82.5% EC

Recommended Uses:
For the control of mosquito larvae in clean, non potable as well as polluted waters.

Mode Of Action:
Contact penetration through body wall and cholinesterase inhibition.
Insecticide with contact, stomach and Respiratory action.

Benefits:
- Good residual activity.
- Stable at high temperatures and all kinds.
- Effective at very low dosages i.e.0.1ppm even in highly polluted water
- Certified by BIS ISI Mark.

Dosage:

<table>
<thead>
<tr>
<th>Depth Of water</th>
<th>Quantity of Baytex(ml)</th>
<th>Water for Dilution(lit)</th>
<th>Surface to be treated(Sq.Mt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 cm</td>
<td>115</td>
<td>200</td>
<td>10,000</td>
</tr>
<tr>
<td>15</td>
<td>20</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>2</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>
Active Ingredients:
Diflubenzuron 25% WP

Recommended Uses:
Product with new mode of action for control of mosquito larvae and for fly maggots.

Mode Of Action:
Diflubenzuron is an insect growth regulator which interferes with formation of chitin during the moulting process of insect larvae.

Benefits:

- Effective against all the three types of mosquito larvae i.e. Aedes, Anopheles and Culex.
- Also effective against housefly maggots.
- Target Specific- Comparatively safe to Non target Organisms.
- Stable in Polluted water and at high temperatures.
- WHOPES evaluated.

Dosage:

(A) For Mosquitoes Bi-Larv should be first mixed with water at the rate of 10g per 10 liters for clear surface water. For longer areas dosages is as below:
Habitat Dose Rate Per Hectare

Clear surface water    200g
Polluted surface water 400g

Sewage Pits, Soak Pits, Latrines, Septic Tanks. 4g product per 1000 liters of Water.

(B) For fly maggots: Add 5g of Bi-Larv in 5 liters of Water and spray uniformly to cover 10 sq. mtr. area at the interval of 6-14 days.

Antidote:

No Specific antidote is known. Treat symptomatically.

Packs

500 gm

Solfac WP 10

Recommended Uses:

Recommended by National Vector Borne Diseases Control Program (NVBDCP),

To be used in Malaria program as residual spray at the dosage of 25mg a.i. persq.m. (2 rounds per year)

Solfac WP 10 has been successfully evaluated and certified by World Health Organisation's Pesticide Evolution Scheme (WHOPES).

Special Features:

- Long lasting residual effect
- Quick results due to Knock Down action.
- High concentration of product greatly reduces transport and storage cost.
Lack of Odour
Negligible irritancy.
Virtually invisible spray residues.

General Precautions:

Solfac WP 10 should be distributed and only in tightly closed original containers.

To be stored in lock and key, in a cool, dry place, well away from food and feedstuffs, and safely out of the reach of children.

Use and dispose, as directed on label.

If signs of poisoning occurs, contact physician immediately.

Symptomatic treatment includes gastric lavage or saline laxative..

Do not give patient Milk, Oil or Alcoholic beverages.

Antidote:

Treat Symptomatically

SolFac 050 EW

Active Ingredients:

Cyfluthrin emulsion 5%, Oil-in-Water.

Activity Spectrum:

Solfac 050 EW is recommended for Cockroaches, Houseflies and Mosquitoes.

Recommended Uses:
The product has been successfully evaluated and certified by World Health Organization's Pesticide Evaluation Scheme.

User Instructions:

Pests User Control

Cockroaches Mix 80ml Solfac 050 EW in 10 lit. of water. Thoroughly spray possible hiding places where pest can occur with 50ml of spray mixer per sq.mtr. If hiding places are not accessible, spray barrier around them.

Houseflies Mix 80ml Solfac 050 EW in 10 lit. of water. Spray surface evenly at a rate of 50ml per sq.m. where flying insects resists.

Mosquitoes Mix 80ml Solfac 050 EW in 10 lit. of water. Spray surface evenly at a rate of 50ml per sq.m.

Fly Larve (Maggot)

Special Features:

- Unique emulsion, Oil-in-Water formulation.
- Binds readily to the surfaces.
- Odourless
- Non-Irritants
- Non-Staining
- Useful in sensitive applications.

General Precautions:

- Solfac 050EW must be sold and distributed in original pack.
- It must be kept under lock and key in a cool, dry place away from food and feed stuff and safely out of reach out of children.
- Do not spray on humans, ornamental plants, Wear protective clothing while spraying.
Avoid contact with skin.

Do not dispose surplus Spray liquid or unused insecticides in water bodies.

After the spray, wash hands, face and contaminated skin areas using plenty of water and soap.

If signs poisoning occurs, call a physician immediately.

Presentation:

1 lit.

K-Othrine WP

Mode of Action

K-Othrine® 2.5% WP contains Deltamethrin as the active ingredient (a.i.). It is a single isomer product, with a very lower vapour pressure and is considered to be practically non-volatile.

K-Othrine® 2.5% WP kills the insect by contact and/or by ingestion. A great affinity has been observed between K-Othrine®2.5% WP and the cuticle of the insect, which consists mostly of lipids. This particular property of K-Othrine®2.5% WP ensures rapid and close contact between the insect and the product.

Dosage & Application Method

K-Othrine®2.5%WP is recommended @ 20mg a.i./sq.m.

400g of K-Othrine®2.5% WP is to be mixed in 10litres of water and sprayed over 500 sq.m.(approx. 3 houses) with normal flat fan nozzle and swath of 21".

K-Othrine®2.5% WP can be sprayed as water suspension with ordinary hand compression knapsack sprayers, stirrup pumps, or atomizers on walls, ceilings and any other hiding places of mosquitoes so as to have a rapid knockdown as well as a longer residual effect.

Recommendations
Approved by National Anti-Malaria Programme K-Othrine®2.5% WP has been successfully evaluated and certified by World Health Organization Pesticide Evaluation Scheme (WHOPES).

Special Features

- Lowest recommended dosage of 20 mg a.i./sq.m.
- Safe for applicators, inhabitants and domestic animals
- Odourless.
- Non-staining
- Active against other flying and crawling insect's viz. Cockroaches, bed bugs, houseflies, ants, etc.

Comparative efficiency

Comparative activity against An. Stephensi by topical application

<table>
<thead>
<tr>
<th>Product</th>
<th>LD50 (mg/kg)</th>
<th>Relative Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDT</td>
<td>25</td>
<td>1</td>
</tr>
<tr>
<td>Dieldrin</td>
<td>3</td>
<td>8</td>
</tr>
<tr>
<td>Permethrin</td>
<td>1.8</td>
<td>14</td>
</tr>
<tr>
<td>Cypermethrin</td>
<td>0.2</td>
<td>125</td>
</tr>
<tr>
<td>K-Othrine®2.5%WP</td>
<td>0.036</td>
<td>700</td>
</tr>
</tbody>
</table>

Safety

At the recommended application rates, K-Othrine®2.5%WP is virtually non-toxic and has an outstandingly high safety factor for man and warm blooded animals in general. K-Othrine®2.5%WP is biodegradable and if absorbed in the human body, will be readily metabolized and excreted.
Non-Penetration of Keratin layer: The skin of warm blooded animals includes a keratin layer. K-Othrine®2.5%WP, contrary to the organophosphorous compounds, does not pass through the keratin layer and hence does not enter the blood stream.

Detoxification by enzymes: Some enzymes, like esterase's, have the ability to break the ester bond in the K-Othrine®2.5%WP molecule thus resulting into an acid and an alcohol, both of which are non-toxic.

These enzymes are virtually absent in the insects thus causing fatality to the insects. Also, the liver hydroxylases, present in large amounts in warm blooded animals have a detoxification action in mammals, particularly in man. However, the hydroxylases are non-existent in insects.

General Precautions

K-Othrine®2.5%WP is a safe insecticide. However, it is advisable to follow the usual precautions. Avoid drinking, eating or smoking during spraying. Avoid direct contact or inhalation. Do not spray on foodstuffs and utensils. After spraying wash hands and exposed parts of the body thoroughly.

Storage

Keep out of reach of children, pets & other domestic animals. The container with the insecticide should be kept in a separate room under lock and key.

K-Othrine Flow

Active Ingredients:

Deltamethrin 2.5%

Recommended Uses:

Useful for effective control of Cockroaches, Houseflies and Mosquitoes in houses as a residual spray on surfaces and for bed net impregnation to protect against adult Mosquitoes.

Mode Of Action:

Non-systemic insecticide with contact and Stomach action.
Benefits:

- Broad spectrum activity.
- No organic solvents.
- Effective in low dosages.
- Non-greasy, Non staining

Dosage:

For residual spray, dilute 10ml/liter of water to cover 10-20m² of area. For Bednet Impregnation, use 1 ml of formulation per sq. meter of bednet area.

Antidote:

Anti histamines, diazepam and other symptomatic treatment.

Pack:

50ml, 1Liter

King Fog

Active Ingredients:

Deltamethrin 1.25% ULV

Recommended Uses:

Recommended for the control of flying insect pests like mosquitoes and houseflies by thermal or Ultra Low Volume fogging.

Mode Of Action:

Contact insecticide with rapid knockdown effect.
Benefits:

Effective against vector of human diseases viz. Anopheles, Culex and Aedes
Extremely low dosages needed (0.5 g.a.i/ha)
Useful during epidemic situations.
Certified with BIS ISI mark.

Dosage:
For thermal fogging - 1 liter of Kingfog should be diluted in 199 liters of Diesel or Kerosene to cover 20 Hectare area.
For ULV – 1 liter of Kingfog to be diluted in 10 liters of Diesel or Kerosene to cover 20 hectares.

Antidote:
Diazepam. Treat symptomatically.

Pack – 1 liter.

Premise

Active Ingredients:

Imidacloprid 30.5% SC

Recommended Uses:

Can be used for management of termites for Pre-construction as well as Post Construction anti termite Treatment.

Mode Of Action:

Systemic Insecticide with contact and Stomach action.
Benefits:

Non-repellent insecticide which does not allow the termites to detect the gaps in the barrier formed to the improper application.

Premise does not kill termites immediately on contact and allows most termites to be exposed to treated soil thus giving better control.

Exposed termites transfer toxicant to nest mate not directly exposed to soil, causing indirect mortality.

Dosage:

Dilute 2.1 ml of formulation in one liter of water for the control of termites in buildings during pre and post construction anti termite treatment.

Note: Treatment has to be carried out as per the current BIS (IS 6313) recommendations.

Antidote:

There is no known specific antidote.

Follow attached directions.

Treat Symptomatically.

Packs:

250ml and 5 Liters

Responsar

Responsar is the revolutionary new synthetic pyrethroid that meets the ever rising demands faced by Paste Management Professionals and Public Health Officials.

Active Ingredients:

Beta Cyfluthrin
Benefits:

- Broad spectrum of activity
- Fast action on all surfaces
- Long residual activity also alkaline surfaces
- Powerful flushing out effect
- Low active ingredient dose rate
- Very low mammalian toxicity
- Odourless
- Effective against fly maggots
- Control insect strains resistant to organophosphorus and carbamate insecticides.

Mode Of Action:

Responsar is a stomach and contact poison having rapid onset of action.

Dosages and Application:

Dilute 10ml of Responsar in one liter of water and is to be sprayed till the point of run-off the solution. Spray all hiding places viz. below sinks, around Drainage pipes, Dustbins, Kitchens, Store room, Dining hall, Pantry area, Cupboards, beneath the furniture etc. If hiding places are not readily accessible, create spray barrier around them.

The spray residue remain effective over time and therefore should not be washed off.

For Refuse Dumps:

Dilute 20ml of Responsar in one liter of water and spray 100ml of solution over sq.m. of surfaces.
Packs:
1 lit.

MaxForce Forte

Maxforce Forte is household insecticide for effective management of Cockroaches.

Active Ingredients:
Fipronil 0.03% RB

Recommended Uses:
Cockroaches like German Cockroach, Brown-Banded Cockroach, American Cockroach and oriental cockroach commonly found in the food handling areas of household and commercial premises.

Mode Of Action:
Stomach Poison

Benefits:

- Baits are attractive to most of the species of cockroaches.
- Highly effective at very low
- Target specific to cockroaches
- No measuring or mixing required.

Application Rate:

<table>
<thead>
<tr>
<th>Cockroach Species</th>
<th>Application Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>(100 mg Drop = Approx. 6mm Diameter)</td>
<td></td>
</tr>
</tbody>
</table>
Low Density Infestation

German Cockroach, Brown-banded cockroach  1 Drop/M2  2 Drop/M2

American Cockroach, Oriental Cockroach  2 Drop/M2  3 Drop/M2

(A)-Low Density Infestation: cockroaches rarely visible during the day.

(B)-High Density Infestation: cockroaches commonly visible during the day.

Antidote :

Treat Symptomatically as specific Antidote is not known.

Packs:

Cartridge of 35g

MaxForce IC

Active Ingredients:

Imidacloprid 2.15% RB

Recommended Uses:

Insecticide gel recommended for control of Cockroaches in houses.

Mode Of Action:

Stomach Poison

Benefits:

Attractive to most of species of Cockroaches.
Active Ingredient is highly effective at very low dose.

Target Specific to cockroaches.

No measuring or mixing required.

Application Rate:

Cockroach Type | Application Rate
--- | ---
(100 mg Drop = Approx. 5mm Diameter)

Low Density Infestation* | High Density Infestation*
--- | ---
Small Cockroaches (e.g. German Cockroach) | 1 Drop/M2 | 2 Drop/M2

Big Cockroaches (e.g. American Cockroach) | 2 Drop/M2 | 3 Drop/M2

* Low Density Infestation: Cockroaches rarely visible during the day.

* High Density Infestation: Cockroaches commonly visible during the day.

Antidote:

Treat symptomatically as specific Antidote is not known.

Packs:

Syringe Of 20 Gram.

K-OBiol
Active Ingredients:
Deltamethrin acts on the insects paste through contact and by ingestion.

Recommended Uses:
K-Obiol is considered as safe insecticide worldwide and codex Alimentarius Commission have fixed the MRLs (Maximum Residue Limit) as 1ppm. In India,
MRL's for K-Obiol have fixed as follows-
- Stored Food Grains: 0.5 ppm
- Milled Food Grains: 0.2 ppm

Special Features:
- A persistent Insecticide. K-Obiol offers protection of grain for 3-6 months. Its long lasting action is mainly due to good chemical stability and low vapour pressure of the molecule.
- Easy to use. Simple equipment to apply.
- Suitable substitute for Malathion. Most effective against Malathion resistant grain insect pests.
- Broad spectrum of activity.
- A high degree of safety

General Precautions:

Storage

Keep out reach of children, pets and other domestic animals. Store in original container under lock and key in cool, dry, well ventilated dark place of sufficient diamentions.

First Aid
In case of eye and skin contact, wash with plenty of water. If swallowed, do not induce vomiting and call a physician who will treat symptomatically.

Antidote:

Antihistaminic, Diazepam and other symptomatic treatment.

Shelf Life:

2 years

Presentation:

1 kg and 10 Kg.

KLASS- Weed Controller

Composition:

KLASS 80% WP, contains 800 g Diuron per Kg product. A mesh size of 94 microns, blended and carefully selected inert materials constantly supervised by Quality Control, guarantee a formulation stability of the highest standards.

Mode Of Action:

The active ingredient (a.i), Diuron, is taken up by the roots of germinating weeds, and translocated into the young leaves, where it interact with the Hill reaction of photosynthesis. Chlorosis, and finally necrosis follow within a few (3-8) days, depending on species, temperature, and soil conditions. To a certain degree, Diuron is taken up via the leaves, and penetrates directly to the site of action. This foliar action takes place only with young, tender leaves i.e. early post-emergence. For foliar activity at later growth stages, or on leaves with thick waxy cuticle, addition of surfactants, or very high product dosages, or both, are required.

After application, the a.i. remains in upper layer of soil. It is activated by soil moisture only. Thus, shallow germinating weeds are affected. The roots of transplanted crops like Pineapple or Sugarcane can not take the a.i. up because they draw at lower levels. The same principle applies for
another perennial crop like tea, citrus and coffee etc. These crop should have a well established root system, and so KLASS (Diuron) must not be applied in plantations of less than three years of age.

The selectivity of KLASS (Diuron) is based on the availability of the a.i. for the root system, i.e., it is by nature purely physical not physiological.

Duration of controls varies between 2 and 12 months according to dosages, soil type, and environmental conditions.

Environmental Behavior:

At the recommended agricultural applications modes. Diuron is classified by WHO as "unlikely to present acute hazard in normal use."

Toxicity to fish
- **LC50 Cyprinus Auratus** 5.8 ppm/48 hrs
- **LC50 Labistas reticulates**

Toxicity to Birds
- **LC50 Anas Platyrhynchos** 2000mg/Kg

Harmless to Honeybees.

Half life in soil is 90-180 days, Biodegradation occurs via N-Dealkylation, followed by Deamination, Decarboxylation, resulting in the aniline which undergoes further oxidation.

Miscibility:

KLASS is easily miscible with 2-4D Sodium Salt, Paraquat, Glyphosate, Clufoainate-Ammonium and other herbicides. Do not mix with insecticides, fungicides or fertilizers.

Applications:

The applications rates are given under the various indications below. The following parameters are to be observed in general.

The recommended spray volume is at 500 L/Ha or 200 L/Acre.

Apply on moist, clean soil. Newly emerged weeds at the 1 to 3 leaf stages can be controlled as well.

Apply with snapsack or tractor mounted sprayer fitted with flat fan or flood jet nozzles.
The area to be treated is to be covered completely and evenly with the spray.

The soil surface should not be disturbed after application.

Never spray in waterbodies such as rivers, lakes, irrigation channels etc.

Do not apply through any type of irrigation system.

Do not apply on the sand, loamy sand, or gravelly soil.

Do not plant annual crops in treated areas within two years after last application in order to avoid potential injury to the crop.

Areas Of Use:

Industrial Sites, Power Plants, Storage Areas, Airfields etc.

Dosages:

10 to 20 Kg per ha, equivalent to 1 to 2 kg per m2 or 4 to 8 kg per Acre.

Timing:

Apply on moist soil if soil is dry, apply sprinkler irrigation after spraying.

Method:

Knapsack or tractor mounting sprayers fitted with flood jet or flat fan nozzles. 500 to 700 Lit per Hectare. (200-250 Lit per acre) Ensure uniform coverage of the area.

Precautions:

- Do not apply near desirable plants. Keep minimum 3m distance to root periphery of desirable plants.

- Do not contaminate waterbodies