

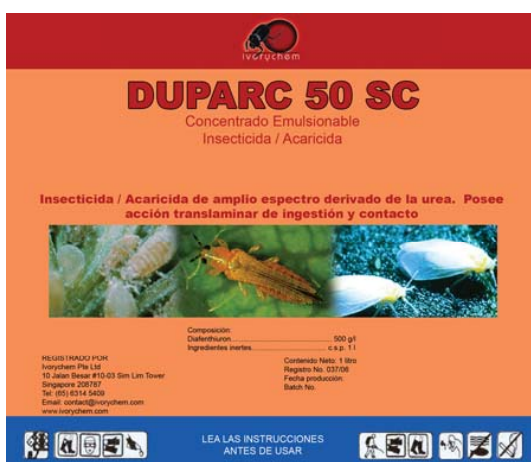
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READ THE ENTIRE LABEL BEFORE USING THIS PRODUCT.

USE ONLY IN ACCORDANCE WITH INSTRUCTIONS.

KEEP OUT OF REACH OF CHILDREN

## DUPARC 50 SC



### INGREDIENTS

Diafenthiuron .....50%  
Other ingredients .....50%

**DUPARC 50 SC is an insecticide** for the control of two-spotted mite, whitefly nymphs and aphid in cotton and other crops. It contains as its active ingredient Diafenthiuron 50%.

DUPARC is an odourless insecticide, effective in controlling target pests over large areas.

Trade Names Of Other Firms: Trade names for products containing Difenthiuron are Pegasus.

### What is DUPARC 50 SC and how does it work?

DUPARC 50 SC has translaminar & vapour action because of which, it effectively controls the hidden nymphs. DUPARC 50 SC also shows some ovicidal action.

### Key Benefits of DUPARC 50 SC:

- Provides longer pest control
- Trusted performance. Reliable.
- Quick knockdown on target pests

### PRECAUTIONS

Harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust or vapor. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep children or pets away from treated area until dry.

### SYMPTOMS OF POISONING

Irritation on skin or eyes.

### MEDICAL TREATMENT

Treatment is symptomatic.

### FIRST AID

If swallowed, call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger or if available, by administering syrup of ipecac. Administer 1 tablespoon (15 ml) of syrup of ipecac followed by 1 to 2 glasses of water. If vomiting does not occur within 20 minutes, repeat the dose once. Do not induce vomiting or give anything by mouth to an unconscious person. If on skin, wash thoroughly with soap and water. Get medical attention if irritation occurs. If in eyes, hold eyelids open and flush with plenty of water.

### DIRECTIONS OF USE

Note: The effect of this product could be diminished if rain falls within 6 hours of application.

Restraint: If applying 2 sprays they must not be consecutive or applied within 6 weeks of each other.

Crop	Pest	Rate/ha	Critical comments
Cotton	Two-spotted mite ( <i>Tetranychus urticae</i> ), Cotton aphid ( <i>Aphis gossypii</i> )	600 or 800 ml	Mites: Apply before mite damage occurs or when 30% of plant leaves are infested. Alternative apply when 15% of plants are infested and the rate of increase is such that 30% of plants are likely to be infested within 7 to 10 days. Treatment at

higher infestation levels may lead to unsatisfactory results. When sampling for mites follow the current sampling method. Aphids: Apply before aphid damage occurs. A repeat application can be made, if required, provided this is in keeping with resistance management guidelines. Only use the lower rate when application is by ground based equipment. Thorough spray coverage is essential. Ground application should involve the use of droppers with nozzles pointing upwards to ensure adequate deposits on the underside of leaves.

Tobacco	Whitefly <i>Bemisia tabaci</i> (Gennadius)	400 g A.I./ha	Apply before damage occurs.
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#### DISPOSAL METHODS

Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture

and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

#### STORAGE CONDITION

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers. Triple or preferably pressure rinse containers before disposal. Add rinsing to spray tank.

For More Details including effects on environment email [contact@ivorychem.com](mailto:contact@ivorychem.com) with Subject "DUPARC 50 WP DETAILS"

More Details:

#### TOXICOLOGICAL EFFECTS

- **Acute toxicity:** DUPARC 50 SC is low to moderately toxic. In both oral and dermal toxicity tests, it was noted that in rats oral toxicity was LD50 = 1950 mg/kg b.w and LD50 > 4000 mg/kg b.w. in dermal toxicity tests. Direct contact of the skin or eyes with moderate levels of this pesticide can cause irritation.
- **Chronic toxicity:** Not Available
- **Reproductive effects:** No reproductive or fetal effects were observed during a long-term study of rats fed high doses of DUPARC 50 SC.
- **Teratogenic effects:** No animal mortality was found during the whole process. Treatment with 1.5 mg/kg bw/day was associated with slight maternal toxicity (somnolence, ruffled coat, limpness). At this high dose, the dose-dependent, elevated methemoglobin levels were found to be maternally toxic, leading to an increased frequency of malformation. No teratogenic or embryotoxic effects were observed in the offspring from dams administered a low dose.
- **Mutagenic effects:** No significant decrease in mitotic index or confluency was observed at any dose level. In the absence and presence of MA, no statistically significant increase in the frequency of cells with structural chromosomal aberrations was observed at any dose.
- **Carcinogenic effects:** Chronic toxicity tests of 95% Diafenthiuron tech in Sprague-Dawley (SD) rats following

administration of oral doses showed in necropsy findings on mice that died during the last 6 months of the test and on those sacrificed at the termination date showed an increased number of enlarged lymph nodes in males. Organ weight variations occurred sporadically in the various dose groups and are considered not to be treatment-related. The histopathological findings failed to reveal abnormal features. The distribution of neoplastic and non-neoplastic findings did not appear to demonstrate any significant dose-dependence. The most common tumours were lymphosarcoma involving the spleen, lymph nodes and thymus.

- **Organ toxicity:** Not available
- **Fate in humans and animals:** Not available

#### ECOLOGICAL EFFECTS

- **Effects on birds:** Acute oral LD50 for bobwhite quail and mallard ducks > 1500 mg/kg; Eight-day dietary LC50 for bobwhite quail and mallard ducks > 1500 mg/kg; No acute hazard under field conditions.
- **Effects on aquatic organisms:** Fish: LC50 (96 h) for carp 0.0038, rainbow trout 0.0007, bluegill sunfish 0.0013 mg/L. Because of rapid degradation to non-toxic metabolites, there is no significant hazard under field conditions. Daphnia: LC50 (48 h) < 0.5 mg/L. Algae: Non-toxic
- **Effects on other organisms:** Not available

#### ENVIRONMENTAL FATE

- **Breakdown in soil and groundwater:** Not available
- **Breakdown in water:** Not available
- **Breakdown in vegetation:** In plants, diafenthiuron shows a complex metabolism pattern in all crops investigated, i.e. cotton, tomatoes and apples. Uptake of residue activity by plants from soil low.

#### PHYSICAL PROPERTIES AND GUIDELINES

##### Physical Properties:

- **Appearance:** DUPARC 50 SC is a white suspension liquid, which is

miscible with water. It is noncorrosive and not flammable. It has no odour.

- **Chemical Name:** 1-tert-butyl-3-(2,6-diisopropyl-4-phenoxyphenyl)thiourea
- **CAS Number:** 80060-09-9
- **Molecular Weight:** Not available
- **Water Solubility:** Not available
- **Solubility in Other Solvents:** Not available
- **Flash Point:** >100
- **Vapor Pressure:** Not available
- **Partition Coefficient:** Not Available
- **Adsorption Coefficient:** Not Available



IVORYCHEM PTE LIMITED  
15 Beach Road #02-09  
Beach Centre  
Singapore 189677  
Tel: +65 63377765  
Fax: +65 63377730  
contact@ivorychem.com  
www.ivorychem.com

Company Registration No 200405572W

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