



IVORYCHEM PTE LIMITED
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Email: contact@ivorychem.com
Web: www.ivorychem.com
Co. Registration No. 200405572W
GST Registration No. 200405572W

MATERIAL SAFETY DATA SHEET

DUPARC 50 SC INSECTICIDE

Version: Global
Date Approved:
Revision No: 1

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DUPARC 50 SC INSECTICIDE
ACTIVE INGREDIENT: Diafenthiuron
CHEMICAL FAMILY: NA
MOLECULAR FORMULA: NA

MANUFACTURER

IVORYCHEM PTE LTD
15 Beach Road, #02-09
Beach Centre
Singapore 189677
Tel: +65 63377765
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Emergency Telephone Numbers:

Emergency Phone contact@ivorychem.com (Please refer local label for Emergency Numbers in your region).

COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Wt. %	PEL/TLV	EC No.	EC Class
Diafenthiuron	80060-09-9	50%	None	None	None
Other Ingredient		50%	None	None	None

HAZARDS IDENTIFICATION

Health Hazards: Harmful if swallowed. Harmful: Danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

Environmental hazard in case of accident (Spillage/Leakage): Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

FIRST AID MEASURES

General: When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.



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Skin: Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion: Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Inhalation: Move to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Notes to Physician

Signs and Symptoms

More severe effects if alcohol is consumed.

Ingestion may provoke the following symptoms: nausea, vomiting, breathing difficulties

Treatment

There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

FIRE FIGHTING MEASURES

This product is combustible at elevated temperatures.

Extinguishing media

Suitable Extinguishing Media: Dry chemical extinguisher, foam, carbon dioxide or water spray (do not use direct jet of water).

Fire fighting

Special Hazards during Fire Fighting: Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

Hazardous Combustion Products: carbon dioxide; carbon monoxide; nitrogen oxides;

Protective Equipment for Fire Fighting: Use self contained breathing apparatus. Wear protective equipment.

ACCIDENTAL RELEASE MEASURES

Environmental Protection Measures following Accidents: Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers.

HANDLING AND STORAGE

General information: Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Do not eat, drink or smoke while working. In addition to the measures usually taken in chemical works like splashproof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.

Storage information

Special Instructions for Storage: Store the product in closed original containers. Protect from light. Store away from frost.



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Storage Compatibility with other Products: Store separately from feed, food and stimulants.

Storage Temperature

Max. Storage Temperature: 35 °C

Min. Storage Temperature: 0°C

EXPOSURE CONTROLS / PERSONAL PROTECTION

Germany (Formaldehyde)

MAK (DFG): 0.5 ppm; 0.62 mg/m³

Notes: C; S; C3

Switzerland (formaldehyde)

MAK (SUVA): 0.5 ppm; 0.6 mg/m³

STEL (SUVA): 1.0 ppm; 1.2 mg/m³

Notes: C; S

USA (formaldehyde)

TLV-C (ACGIH): 0.3 ppm; 0.37 mg/m³

IDLH (NIOSH): 20 ppm

Notes: A2

Personal protective equipment In General: Change working clothes daily.

Breathing Protection: In case of heavy exposure, wear: Gas mask with dust filter.

Eye Protection: Goggles or face-shield

Hand Protection: Gloves

Body Protection: Heavy duty cotton or synthetic fabric working clothes (e.g. overalls).

Precautionary measures after work: Wash thoroughly (shower, bathe, wash hair). Change clothing. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution

PHYSICAL AND CHEMICAL PROPERTIES

Form: fluid paste

Colour: light beige to dark beige

Physical state: liquid

Solidification point: < 0°C

Boiling point/ range: 90°C

Flash point: not detected

Flammability: not highly flammable

Explosive properties assessment: not explosive

Density: 0.98 – 1.02 g/cm³ (20°C)

pH Value: 5 - 9

Miscibility with water: miscible

Dynamic viscosity: 550 – 850 mPa.s (20°C)

STABILITY AND REACTIVITY

Chemical stability assessment: stable under standard conditions

Sensitivity to light: sensitive to light

TOXICOLOGICAL INFORMATION

Company Registration No: 200405572W
Incorporated in the Republic of Singapore Under the Companies Act (Cap 50)



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Only acute toxicity studies have been conducted on this product as formulated. The non-acute information pertains to the active ingredient, Diafenthiuron.

Acute Oral Toxicity: Rat: LD50: 1500 mg/kg

Acute Dermal Toxicity: Rat: LD50: > 4000 mg/kg

Acute skin irritation: non irritant (rabbit)

Acute eye irritation: non-irritant (rabbit)

Skin sensitization: non sensitizing (guinea pig)

Additional toxicological information: in animal studies (rat, mouse, dog), prolonged exposure to Diafenthiuron has been shown to produce lung damage. In mice, chronic oral administration has produced lung tumors at high dose levels. Strictly avoid exposure.

ECOLOGICAL INFORMATION

Acute toxicity to fish LC50: 1.1mg/l (salmo trutta (trout); 96h)

Toxicity to aquatic invertebrates EC50: 0.0018 mg/l (Daphnia magna Straus; 48 h)

Toxicity to bees, Acute oral LD50: > 200 µg/bee (apis mellifera (honey bee); 48 h)

Toxicity to bees, Acute contract LD50: 31µg/bee (apis mellifera (honey bee); 48 h)

DISPOSAL CONSIDERATIONS

Product disposal: pay attention to protective clothing and measures. Cover up product with absorptive material such as sand, oil diatomaceous earth, etc. collect material in specially marked, tightly closing containers. Clean dirty areas with water and detergent. Put washing water in containers too, to avoid any contamination of surface and ground water, water supplies and drains. Hose down the area for a prolonged period. Heavily contaminated soil layers have to be dug out down to clean soil. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative and dispose of in an incinerator approved for chemicals.

Container disposal: dispose of empty containers in an incinerator approved for chemicals. Dispose of damaged containers in an approved incinerator for chemicals or in a site (landfill). Check possibilities of recycling large empty containers, drums and barrels.

TRANSPORT INFORMATION

Special information: use unbreakable containers, make sure they cannot fall and label in accordance with regulations.

Rail / Road (RID)

Class: 9

UN No.: 3082

Pack group: III

Kemmler index: 90

CEPIC: 90GM6-III

Proper shipping name additional information: environmentally hazardous substance, liquid, N.O.S (Diafenthiuron)

Sea (IMDG-Code)

Class: 9

UN No.: 3082

Pack group: III

Proper shipping name additional information: environmentally hazardous substance, liquid,



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N.O.S (Diafenthiuron 50%)

Marine pollutant: yes

Air (ICAO/IATA)

Class: 9

UN No.: 3082

Pack group: III

Proper shipping name additional information: environmentally hazardous substance, liquid,
N.O.S (Diafenthiuron)

REGULATORY INFORMATION

Active ingredient Name: Diafenthiuron

The following precautions appear in the Precautions section of label / leaflet. Wash hands and exposed skin after use. Wash splashes from skin or eyes immediately with plenty of water.

The following precautions appear in the 'Statutory conditions relating to use' box of the label / leaflet. For use only as insecticide, and professional use only. Wear suitable protective clothing / overall and synthetic rubber / PVC gloves and eye protections when using.

OTHER INFORMATION

Section(s) Revised: New Format



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