

Sharda International Africa (Pty) Ltd

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

(Co. Reg. No. 2010/002268/07)

SAFETY DATA SHEET

“Dicati”

1. IDENTIFICATION OF PRODUCT AND COMPANY

Name of Product: “DICATI”

Active Ingredient: Difenconazole 250 EC

Product Use: Fungicides

Registration holder: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135

Contact Tel. No.: 031-764-3011

Poison Centres: UNITAS Hospital: 0800-111-9900
Tygerberg Hospital: 021-931-6129
Netcare 911: 082911

2. Composition / information on ingredients

Chemical characteristic

Formulation type : Emulsifiable Concentrate

Use : Fungicide

Active ingredient : 25 % w/v Difenconazole (250g difenoconazole/l)

Other Ingredients : Up to 100%

3. Hazards Identification

Health Hazards: Harmful: may cause lung damage if inhaled.

Environmental hazard in case of accident (Spillage/Leakage): Very toxic to algae.
Toxic to fish and aquatic organisms (e.g. *Daphnia*).

4. First-Aid Measures

General: Remove the patient from the danger zone to a well-ventilated room or to fresh air, and protect from under-cooling.

IN CASE OF SUSPECTED POISONING: Immediately call physician.

Sharda International Africa (Pty) Ltd

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

(Co. Reg. No. 2010/002268/07)

Eye Contact: Rinse eyes with clean water for at least 15 minutes.

Ingestion: Repeatedly administer medicinal charcoal in a large quantity of water.

NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting.

Skin Contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.

Medical Instructions

Antidote: No specific antidote is known. Apply symptomatic therapy.

Experiences Specific to Man: No case of human poisoning is on record.

5. Fire-Fighting Measures

Combustibility: yes

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

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.

Protective Equipment for Fire Fighting: Use respirator to protect from fumes.

Swiss Fire Prevention Class: F2 L

6. 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. Keep away from sources of ignition.

7. Handling and Storage

Handling information

General: Shake well before use. Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Keep away from sources of ignition. Take precautionary measures against static discharges (transfer operations: check grounding). May form explosive vapour-air mixtures. Do not eat, drink or smoke while working. In addition to

Sharda International Africa (Pty) Ltd

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

(Co. Reg. No. 2010/002268/07)

the measures taken usually in the chemical works like splash-proof 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 and humidity.

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

Storage Temperature

Max. Storage Temperature: 35 °C

Min. Storage Temperature: 10 °C

8. Exposure controls / Personal protection

Personal protective equipment

In General: Change working clothes daily.

Breathing Protection: In case of heavy exposure, wear respirator with universal filter

Eye Protection: Goggles or face-shield

Hand Protection: Chemical-resistant gloves

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

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.

9. Physical and Chemical Properties

Form: liquid

Color: yellowish to dark brown

Physical State: liquid

Solidification Point: < 10 °C

Boiling Point/Range: > 170 °C

Flash-Point: >= 54 °C EEC A 9

Density: 0.98 - 1.02 g/cm³ (20 °C) OECD 109

pH Value: 8 - 12 (1 %; in deionised water) CIPAC MT 75.2

Miscibility with water: miscible

10. Stability and Reactivity

Chemical Stability Assessment: Stable under standard conditions.

Sharda International Africa (Pty) Ltd

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

(Co. Reg. No. 2010/002268/07)

11. Toxicological Information

Acute Oral Toxicity OECD 401	LD50: 1 849 - 1 876 mg/kg (rat)
Acute Dermal Toxicity OECD 402	LD50: > 2000 mg/kg (rat)
Acute Inhalation Toxicity OECD 403	LC50: > 15.68 mg/l (rat; 4 h)
Acute Skin Irritation:	non-irritant (rabbit) OECD 404
Acute Eye Irritation:	non-irritant to mild irritant (rabbit) OECD 405
Skin Sensitization:	not sensitizing (guinea pig) OECD 406

12. Ecological Information

Acute Toxicity to Fish	LC50: 3.2 mg/l <i>Salmo trutta</i> (trout) (96h)
Toxicity to Aquatic Invertebrates (48h)	LC50: 3.1 mg/l <i>Daphnia magna</i> (water flea)
Toxicity to Bees (acute oral) (48h)	LC50: >187 µg/bee <i>Apis mellifera</i> (honey bee)
Toxicity to Bees (acute contact) (48h)	LC50: >101 µg/bee <i>Apis mellifera</i> (honey bee)
Acute Toxicity to Birds	LD50: > 2150 mg/kg (mallard duck)
Chronic Toxicity to Birds	LD50: > 5000 ppm (mallard duck; 11 days)

13. Disposal Considerations

Disposal

Product Disposal: Pay attention to protective clothing and measures. Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. Collect material in specially marked, tightly closing containers. Clean contaminated areas with carbonated or soapy water. Recover washing/rinsing water in containers 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: Rinse the empty container 3 times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the content of the spray tank before destroying the container by perforation and flattening. Never use the container for any other purpose. Dispose of empty containers in an incinerator approved for chemicals. **Damaged Containers:** Place original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.

14. Transport Information

Special Information: Use unbreakable containers, ensure container stability (can not fall), and label in accordance with regulations.

Sharda International Africa (Pty) Ltd

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

(Co. Reg. No. 2010/002268/07)

Rail / Road (RID / ADR) Class Cipher UN No. 3082
Kemmler Index CEFIC 3 31C 1993 30 30G35
Proper Shipping Name FLAMMABLE LIQUID, N.O.S.
Additional Information (ISOBUTANOL)

Sea (IMDG-Code) Class UN No. 3082
Pack. Group EMS MFAG 3.3 1993 III 3-06 305
Proper Shipping Name FLAMMABLE LIQUID, N.O.S.
Additional Information (ISOBUTANOL AND DIFENOCONAZOLE 25%, MARINE POLLUTANT)

Air (ICAO / IATA) Class UN no. Pack. Group 3 1993 III
Proper Shipping Name FLAMMABLE LIQUID, N.O.S.
Additional Information (ISOBUTANOL)

15. Regulatory Information

EU-Classification

Hazard Symbol Xn Harmful

Risk Phrases

- R10 Flammable.
- R50 Very toxic to aquatic organisms.
- R53 May cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.

Safety Phrases

- S2 Keep out of the reach of children.
- S7 Keep container tightly closed.
- S13 Keep away from food, drink and animal feedstuffs.
- S16 Keep away from sources of ignition - No smoking.
- S20/21 When using do not eat, drink or smoke.
- S23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- S24/25 Avoid contact with skin and eyes
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S27 Remove all contaminated clothing off immediately.
- S28 After contact with skin, wash immediately with plenty of clean water.
- S36/37 Wear suitable protective clothing/ Wear suitable gloves. Keep only in the original container.
- S46 If swallowed, seek medical advice immediately and show this container and label to the doctor.
- S47/49 Keep at temperature not exceeding 35°C.
- S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
- S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container and label to the doctor.

Source of Hazard 2-methylpropan-1-ol solvent naphtha (petroleum), heavy aromatic

Sharda International Africa (Pty) Ltd

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

(Co. Reg. No. 2010/002268/07)

Use of this material is governed by the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act No. 36 of 1947) and the regulations of the Act.

Users are advised to consult these regulations for further information.

The information contained in this Data Sheet does not constitute an assessment of workplace risks.

International

WHO Toxicity Classification - III: Product unlikely to present acute hazard in normal use

16. Other Information

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.