

SAFETY DATA SHEET



DYFEN®

Date of Issue: 11th July 2018

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s):	difenoconazole
Recommended use:	Fungicide
Supplier:	Agrisource 2000 Limited 45 Kitchener Road Pukekohe Phone: 09 237 0422
Emergency telephone number:	0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classifications:	3.1D, 6.1E, 6.3B, 6.4A, 6.9B, 9.1B
Required identification Details:	WARNING – Keep out of Reach of Children ECOTOXIC 3.1D: WARNING - COMBUSTIBLE LIQUID , Keep away of sources of ignition. 6.1E: WARNING – May be harmful if swallowed, inhaled or absorbed through the skin. 6.3B: WARNING – May cause mild skin irritation. 6.4A: WARNING - May cause eye irritation. 6.9B: WARNING - may cause liver damage from repeated oral exposure at high doses. 9.1B: Toxic to aquatic organisms with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
difenoconazole	119446-68-83	25%
Aromatic hydrocarbon	64742-94-5	40-60%

4. FIRST-AID MEASURES

Description of necessary first aid measures: In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. **Phone 0800 764 766, (0800 POISON).**

Effects and symptoms: This product may be harmful if a large amount is swallowed and may cause liver damage. May irritate eyes. May irritate skin. The dermal toxicity of this product is low. However, skin contact should be avoided. This product is not a skin sensitiser. May be a slight respiratory irritant.

First-aid measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Rinse the mouth, Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

5. FIRE-FIGHTING MEASURES

Type of Hazard: Combustible product at elevated temperatures

Extinguishing media : Water spray, Dry extinguishing media, carbon dioxide.

HAZCHEM Code: 2X

Fire Hazard Properties: Carbon dioxide. Carbon monoxide. Nitrogen oxides. Halogens.

Protection of fire-fighters: Wear protective clothing and self contained breathing apparatus. Do not breathe smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

Environmental precautions: Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Methods for cleaning up:

In the case of spillage, contain spilled material. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum or shovel waste into a drum. To decontaminate spill area, tools and equipment, wash with water. Dispose of drummed wastes in accordance with the requirements of Local Authorities

7. HANDLING AND STORAGE**Handling:**

When mixing or applying, avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

Storage:

Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep out of reach of children. Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Packaging materials:

HDPE Plastic drum

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Workplace Exposure Guidelines****Workplace exposure standards:**

Not available.

**Exposure Standards outside:
The workplace:**

Not available.

Engineering measures**Exposure control measures:**

Ensure ventilation is adequate, as product is used outdoors generally natural ventilation is adequate.

Personal Protective Equipment**Detail specifications for equipment:****Respiratory system:**

Where insufficient ventilation, use suitable respiratory protection.

Skin and body:

When opening the container, preparing spray and using prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.

Hands:

Elbow-length and PVC gloves

Eyes:

Wear chemical goggles or face shield.

General hygiene:

Females of childbearing age should not come into contact with the product.
Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change

contaminated protective clothing. Keep away from food, drinks and tobacco.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Amber
Odour:	Aromatic
pH:	9.0 to 10.0
Boiling range:	Decomposes > 90°C
Freezing/melting point:	May start to solidify at 0°C
Solubility in water:	Emulsifiable
Specific gravity or density:	Approx. 1.05g/L (20°C)
Flashpoint:	Not Flammable
Autoignition:	Non-self-igniting
Combustibility:	Combustible

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Conditions to avoid:	Extreme heat or Cold.
Materials to avoid:	Strong oxidizers, acids, alkalis, reducing agents.
Hazardous decomposition Products:	May include nitrogen and Carbon dioxides, hydrogen chloride gas.
Hazardous reactions :	None expected.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :	LD ₅₀ > 3400 mg/kg (rat)
Acute toxicity - Dermal :	LD ₅₀ > 2000 mg/kg (rat)
Acute toxicity – Inhalation	LC ₅₀ >3300 mg/m ³ (rat, 4hr, ai)
Skin irritation :	Mildly irritating (rabbit)
Eye irritation:	Mildly irritating (rabbit)
Sensitization :	No dermal sensitisation (Guinea pig)

12. ECOLOGICAL INFORMATION

Fish toxicity:	LC ₅₀ (96hr) = 0.81mg/L (rainbow trout), 1.2 mg/L (bluegill sunfish)
Daphnia toxicity:	LC ₅₀ (48 hr) = 0.77mg/L daphnia magna
Algae toxicity:	EC ₅₀ = 0.032 – 1.2mg/L
Bird toxicity:	LD ₅₀ = >2000mg/kg (mallard duck) LD ₅₀ = >4700mg/kg (bobwhite quail)
Bee toxicity:	LD ₅₀ = >187 ug/bee (oral), LD ₅₀ >100 ug/bee (topical)
Earthworm toxicity:	LC ₅₀ = >610mg/kg

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.
Container disposal:	Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

14. TRANSPORT INFORMATION - International transport regulations

UN number:	3082
Class:	9
Packing Group:	III
Marine Pollutant:	Yes
Proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S. (difenaconazole)
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

ACVM Registered Number:	P8342 (See www.foodsafety.govt.nz/acvm for registration Conditions).
HSNO Approval Code:	HSR001692 (See www.epa.govt.nz for controls).
Approved Handler:	This product must be under the personal control of an approved handler or secured.
Tracking:	Not required.

16. OTHER INFORMATION

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

This Material Safety Data Sheet is based on information available at the time of issue. To the extent permitted by law, users of this information accept that neither the manufacturer, Agrisource 2000 Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.