

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:

Hazardous according to the criteria of NOHSC

COMPANY DETAILS:

Syngenta Crop Protection Pty Limited

ABN 33 002 933 717

Level 1, 2-4 Lyon Park Road,

NORTH RYDE, NSW, 2113

Telephone No.: (02) 8876 8444

24 Hours Emergency No.: 1 800 033 111

IDENTIFICATION

PRODUCT NAME: SCORE® Foliar Fungicide

Formulation type:	emulsifiable concentrate	UN Number (ADG):	none allocated
Active Ingredient:	difenoconazole (a DMI fungicide)	Dangerous Goods Class/ and Subsidiary Risk (ADG):	none allocated
Product Code No.:	R435/129/13	Hazchem Code:	none allocated
Chemical type:	triazole derivative	Packing Group:	none allocated
		Poisons Schedule:	5

USE: Fungicide for the control of target spot in potatoes and tomatoes, leaf blight of carrots and leaf spot diseases of bananas.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Clear amber liquid	Flash Point:	66 - 67°C (closed cup)
Odour:	Non-specific	Flammability:	Non-flammable
Vapour pressure:	Not known	Behaviour in water:	Emulsifiable
Specific gravity (H₂O=1)	1.02 (at 20°C)		

OTHER PROPERTIES

Viscosity:	Not available	Combustibility:	C1 - Combustible
Volatility:	Not available	Corrosiveness:	Non-corrosive
pH (5% aqueous)	9.6		

INGREDIENTS -

	CAS No.	Content (% w/v)
difenoconazole (technical grade)		>25
to give difenoconazole	119446-68-3	25
N-methyl pyrrolidone	872-50-4	10-<30
alkyl benzene sulphonate		<10
ingredients determined not to be hazardous		<10
aromatic petroleum hydrocarbon liquid mixture	64742-94-5	to 100

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE

Toxicity - This product is slightly hazardous (WHO Hazard Class III)

Swallowed:	LOW TOXICITY Tests on rats indicate a low toxicity following single doses of the undiluted product. (LD ₅₀ >3442 mg/kg)
Dermal absorption:	LOW TOXICITY Tests on rats indicate a low toxicity due to skin contact with the undiluted product. (LD ₅₀ >2000 mg/kg)
Inhaled:	LOW TOXICITY Tests on rats indicate an low toxicity due to inhalation of the undiluted product. (LC ₅₀ (4 h) >5400 mg/m ³)

Irritation -

Eye: **MODERATE IRRITANT**
Skin: **MODERATE IRRITANT**

Sensitisation - (based on results of **difenoconazole technical** on guinea pigs) -

Skin: **NOT A SENSITISER**

The sensitising potential of the hydrocarbon liquid is not known.

CHRONIC (Active Ingredient)

Difenoconazole technical has been extensively tested on mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained. Chronic 2-year feeding studies revealed no compound-related tumourigenic effects in rats, whereas in mice high doses were associated with an increased incidence of liver tumours.

The absence of mutagenic effects and the pronounced restriction of tumour appearance to one organ and one species suggests an underlying promotion process which is frequently seen in mice and which is considered to have no bearing in humans.

Repeated high doses of difenoconazole technical were associated with cataracts in dogs and hens. Studies on other species and a subsequent dog study did not confirm this effect. Other effects at high doses included liver toxicity and adverse effects on blood cells and platelets.

The **aromatic petroleum hydrocarbon liquid** may cause central nervous system depression and narcosis.

FIRST AID

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre. Phone 131 126.

Swallowed: If swallowed **DO NOT** induce vomiting. Give a glass of water and contact a doctor or Poisons Information Centre.
Eye: Will irritate the eyes. Avoid contact with eyes. If product gets in eyes wash it out immediately with water.
Skin: Will irritate the skin. Avoid contact with skin. If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.
Inhaled: Move person to fresh air and keep at rest until recovered.

ADVICE TO DOCTOR

No specific antidote is available. If poisoning is suspected apply symptomatic therapy.

PRECAUTIONS FOR USE**ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS****EXPOSURE STANDARDS**

No exposure standards have been set for the components of this product. The manufacturer of the liquid aromatic hydrocarbon solvent recommends an occupational exposure limit of 100 mg/L of air (8 hour time-weighted average).

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Skin uptake and inhalation of spray mist are possible routes of exposure. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all exposure routes.

Re-entry Period - Do not enter treated areas without protective clothing until spray has dried.

ENGINEERING CONTROLS

No special requirements. Product is used outdoors.

PERSONAL PROTECTION

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container and preparing spray wear:

- cotton overalls buttoned to the neck and wrist,
- a washable hat,
- elbow-length butyl rubber gloves and
- face shield or goggles.

If product gets in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves and face shield or goggles and contaminated clothing.

FLAMMABILITY

This product is NON-FLAMMABLE and non-explosive. Product is combustible.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

Transport Classification – Sea (IMDG):

UN No.:	3082	Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS
Class:	9		SUBSTANCE, LIQUID, N.O.S.
Packing Group:	III	Additional Information:	DIFENOCONAZOLE 25%, MARINE POLLUTANT

SPILLS AND DISPOSAL

In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways.

Procedure for spill:

- (1) Keep all bystanders away.
- (2) Wear full-length clothing and butyl rubber gloves.
- (3) Reposition any leaking containers so as to minimise further leakage.
- (4) Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Dispose of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50 L of product bury in a secure landfill site.
 - For quantities greater than 50 L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable

Dispose of empty, used containers by:

- (a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.
- (b) If recycling, replace cap and return clean containers to recycler or designated collection point.
- (c) 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.

FIRE/EXPLOSION HAZARD

This product is non-flammable and non-explosive. Product is combustible. Extinguish warehouse and factory fires using fine-water spray or foam. During a fire this product may release smoke and hazardous decomposition products. When fighting a major fire wear an air-supplied respirator.

OTHER INFORMATION

Difenoconazole technical is practically non-toxic to birds and bees and highly toxic to fish [LC₅₀ (96 h), rainbow trout = 0.81 mg/L] and algae. DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly wetlands, waterbodies or watercourses. Do not contaminate dams, waterways or drains with the product or its container.

Note: This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

CONTACT POINT: Regulatory Affairs Manager - Crop Protection - (02) 8876 8444
24 HOURS EMERGENCY CONTACT: 1 800 033 111

This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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