

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	SCORE® Foliar Fungicide
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S (solvent naphtha and difenoconazole) Applicable only for marine and air transport
	Product code: A7402Q
Recommended Use:	Fungicide for the control of target spot in potatoes and tomatoes, leaf blight of carrots and leaf spot diseases of bananas
Company Details:	Syngenta Crop Protection Pty Limited ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark Road MACQUARIE PARK NSW 2113 AUSTRALIA
Telephone Number:	(02) 8876 8444
Emergency Telephone Number:	24 hours - 1800 033 111

Section 2: HAZARDS IDENTIFICATION

Hazard Classification:	Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
Risk Phrases:	R22 Harmful if swallowed R36/38 Irritating eyes and skin. R43 May cause sensitization by skin contact.
Safety Phrases:	—

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	
Chemical Identity of Pure Substance:	Difenoconazole
Synonym:	CGA169374
CAS Number:	119446-68-3

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)
Difenoconazole	119446-68-3	25
N-methyl pyrrolidone	872-50-4	10 - <30
Calcium alkyl benzene sulphonate	26264-06-2	<10
aromatic petroleum hydrocarbon liquid mixture	64742-94-5	30 - <60
Other ingredients determined to be non hazardous	-	to 100

Section 4: FIRST AID MEASURES

<p>Description of Necessary First Aid Measures:</p>	<p>In case of poisoning by any exposure route contact a doctor or Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p>Ingestion: If swallowed, seek medical advice immediately and show this container or label. DO NOT induce vomiting.</p> <p>Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.</p> <p>Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.</p> <p>Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Information Centre immediately.</p>
<p>Poisoning Symptoms: Medical Advice:</p>	<p>Poisoning symptoms in laboratory animals were non-specific There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.</p>

Section 5: FIRE FIGHTING MEASURES

<p>Suitable Extinguishing Media:</p>	<p><i>Extinguishing media - small fires</i> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide extinguisher. DO NOT use direct jet of water.</p>
<p>Hazards from Combustion Products:</p>	<p><i>Extinguishing media - large fires</i> Use alcohol-resistant foam</p>
<p>Hazards from Combustion Products:</p>	<p>This product contains combustible organic components that may burn and decompose during a fire producing dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health. Flash back possible over considerable distance.</p>
<p>Special Protective Precautions and Equipment for Fire Fighters:</p>	<p>Wear full protective clothing and self-contained breathing apparatus.</p>

Section 6: ACCIDENTAL RELEASE MEASURES

<p>Emergency Procedures:</p>	<p>In case of spillage it is important to take all steps necessary to</p> <ul style="list-style-type: none"> • Avoid eye and skin contact • Avoid contamination of waterways
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Methods and Materials for Containment and Clean Up:	<p>Procedure for spill</p> <ol style="list-style-type: none"> (1) Keep all bystanders away (2) Wear full length clothing and PVC gloves (3) Reposition any leaking containers so as to minimise further leakage (4) Dam and absorb spill with an absorbent material (eg sand or soil) (5) Shovel the absorbed spill into drums (6) Disposal of the absorbed material will depend upon the extent of the spill <ul style="list-style-type: none"> • 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 spill area with detergent and water and rinse with the smallest volume of water practicable
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Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	<p>Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin.</p> <p>When opening the container and preparing spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist, • a washable hat, • elbow-length butyl rubber gloves, • face shield or goggles. <p>When using the prepared spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist, • a washable hat and • elbow-length butyl rubber gloves <p>If product gets in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing</p>
Conditions for Safe Storage:	<p>Store in closed original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.</p>

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

	<i>Component</i>	<i>Exposure limit</i>	<i>Value type</i>
National Exposure Standards:	N-methyl pyrrolidone	103 mg/m ³	TWA
		25 ppm	TWA
		309 mg/m ³	STEL
		75 ppm	STEL
Syngenta Exposure Standards:	Difenoconazole	8 mg/m ³	TWA
Biological Limit Values:	No biological limits allocated		
Engineering Controls:	No special requirements. Product is used outdoors.		

Personal Protective Equipment:	<p>Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin.</p> <p>When opening the container and preparing spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist, • a washable hat, • elbow-length butyl rubber gloves, • face shield or goggles. <p>When using the prepared spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist, • a washable hat and • elbow-length butyl rubber gloves <p>If product gets in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing</p>
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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow to brown liquid	Boiling Point/Range:	> 220°C
Odour:	Solvent	Freezing/Melting Point:	Not available
pH:	4 – 8 (1% in water)	Solubility:	Dispersible
Vapour Pressure:	Not available	Specific Gravity:	1.04 - 1.08 g/cm ³
Vapour Density:	Not available		

Flash Point:	66 - 67°C (closed cup)	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not highly flammable	Oxidising Properties:	Not oxidising
Ignition Temperature:	Not available	Combustibility:	Combustible C1
		Corrosiveness:	Not corrosive

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under standard conditions.
Conditions to Avoid:	None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic and irritant vapours.
Hazardous Reactions:	None known. Hazardous polymerization does not occur.

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:	
Acute:	<p>Oral toxicity: HARMFUL Tests on rats indicate this product is harmful following single doses of undiluted product. (LD₅₀ = 1534 mg/kg - active ingredient) (LD₅₀ = 2504 mg/kg - similar formulation)</p> <p>Dermal toxicity: LOW TOXICITY Tests on rabbits indicate this product has a low toxicity following skin contact with a similar formulation. (LD₅₀ = > 2000 mg/kg)</p> <p>Inhalation: LOW TOXICITY Tests on rats indicate this product not harmful due to inhalation a similar formulation. (LC₅₀ (4h) = 5.4 mg/L air)</p> <p>Skin irritation: SLIGHT IRRITANT</p> <p>Eye irritation: MODERATE IRRITANT</p> <p>Sensitisation: NOT A SENSITISER</p>
Chronic:	<p>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 tumorigenic 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 to 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.</p>

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<p><i>Toxicity to fish:</i> Moderately toxic to fish <i>Oncorhynchus mykiss</i> (rainbow trout): LC₅₀ = 3.2 mg/L, 96 h</p> <p><i>Toxicity to daphnia and other aquatic invertebrates:</i> Moderately toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea): EC₅₀ = 3.3 mg/L, 48 h</p> <p><i>Toxicity to algae:</i> Highly toxic to algae <i>Scenedesmus subspicatus</i> (green algae): E_bC₅₀ = 0.15 mg/L, 72 h (Based on test results obtained with similar product)</p> <p><i>Toxicity to soil dwelling organisms:</i> Slightly toxic to earthworms <i>Eisenia foetida</i> (earthworm): LC₅₀ = 610 mg/kg</p> <p><i>Bees:</i> Low toxicity to bees <i>Apis mellifera</i> (honey bee): LD₅₀ oral > 100 µg/bee (Based on studies with the active ingredient)</p>
Persistence and Degradability:	Difenoconazole is persistent in water but not in soil.
Mobility	Difenoconazole has low mobility in soil.
Environmental Fate	Difenoconazole is incorporated into organic matter.

(Exposure):	
Bioaccumulative Potential:	Difenoconazole has high potential to bioaccumulate.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. 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
Special Precautions for Landfill or Incineration:	Not applicable

Section 14: TRANSPORT INFORMATION

LAND TRANSPORT ADG		Not a dangerous good in Australia	
UN Number:	None allocated	Packing Group:	None allocated
UN Proper Shipping Name:	None allocated	Special Precautions for User:	None allocated
Class:	None allocated	Hazchem Code:	None allocated
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG			
UN Number:	3082	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Solvent Naphtha and Difenoconazole)	Packing Group:	III
Class:	9	Marine Pollutant:	Yes

AIR TRANSPORT IATA - DGR			
UN Number:	3082	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Solvent Naphtha and Difenoconazole)	Packing Group:	III
Class:	9		

Section 15: REGULATORY INFORMATION

APVMA Product Number: 45810

Poisons Schedule (SUSDP): 5

Section 16: OTHER INFORMATION

Date of preparation or last revision: September 2011

Source of Data: The information provided in this SDS is sourced from Syngenta internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions

CONTACT POINT: Regulatory Affairs Manager, Syngenta Crop Protection Pty Limited
(02) 8876 8444

24 HOURS EMERGENCY CONTACT: 1800 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 SDS 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.