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SAFETY DATA SHEET

Section 1: Identification: Product identifier and chemical identity

Product Identifier: MEDALLION Turf Fungicide

Other Means of Identification: Proper shipping name: Environmentally Hazardous Substance,

Liquid, N.O.S. (fludioxonil)

Applicable only for marine and air transport

Product code: Formulation code A17856B

Recommended Use: For the control of Anthracnose, Brown Patch, Dollar Spot,

Helminthosporium Disease and Winter Fusarium in turf

Details of manufacturer or

Syngenta Australia Pty Ltd

importer

ABN 33 002 933 717

Address: Level 1, 2-4 Lyonpark Road

MACQUARIE PARK NSW 2113

AUSTRALIA

Website: syngenta.com.au Phone Number: (02) 8876 8444

Emergency Phone Number: 24 hours - 1800 033 111

Section 2: Hazards identification

Classification of the Hazardous Not classified as hazardous under GHS criteria.

Chemical:

Signal Word:

Hazard Statement(s):

Precautionary Statement(s): -

Hazard Symbols: -

Section 3: Composition and information on ingredients

SUBSTANCE

Chemical Identity of Pure Substance: Fludioxonil **Synonym:** CGA173506

CAS Number: 131341-86-1

MIXTURE		
Chemical Identity of Ingredients:	CAS No	Proportion (%w/v)
Fludioxonil	131341-86-1	12.5
poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]-hydroxy	99734-09-5	>= 1 - < 2.5
2-bromo-2-nitropropan-1,3-diol	52-51-7	< 0.1
1,2-benzisothiazol-3(2H)-one	2634-33-5	< 0.05
Non-hazardous ingredients	-	to 100

Section 4: First aid measures

Description of Necessary First Aid Measures:

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.

Ingestion: If swallowed, seek medical advice immediately and show

> the container or label. DO NOT induce vomiting.

Eve contact: Rinse immediately with plenty of water, also under the

> evelids, for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

Take off all contaminated clothing immediately. Skin contact:

> Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing before re-use.

Inhalation: Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial

respiration.

Keep patient warm and at rest.

Call a doctor or Poisons Information Centre immediately.

Symptoms Caused by

Exposure:

Poisoning symptoms in laboratory animals were non-specific

Medical Attention and Special Treatment:

There is no specific antidote available. Treat symptomatically.

Section 5: Fire fighting measures

Suitable Extinguishing

Equipment:

Small fires: Use water spray, alcohol resistant foam, dry chemical or

carbon dioxide.

Large fires: Use alcohol resistant foam or water spray.

DO NOT use a solid water stream as it may scatter and spread fire.

Chemical:

Specific Hazards Arising from the As the product contains combustible organic components, fire will

produce dense black smoke containing hazardous products of combustion. Combustion or thermal decomposition will evolve toxic

and irritant vapours.

Exposure to decomposition products may be a hazard to health.

Special Protective Equipment and Precautions for Fire

Fighters:

Wear full protective clothing and self-contained breathing apparatus.

Section 6: Accidental release measures

Personal Precautions, Protective

Equipment and Emergency

Procedures:

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

· Avoid eye and skin contact

Avoid contamination of waterways

Environmental Precautions:

Prevent further leakage or spillage if safe to do so.

DO NOT flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and Materials for Containment and Clean Up: Procedure for spill

Keep all bystanders away (1)

(2) Wear full length clothing and PVC gloves

Reposition any leaking containers so as to minimise further (3)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
	For quantities up to 50 L of product bury in a secure landfill

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.

Section 7: Handling and storage

Precautions for Safe Handling:	When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) Wash hands after use. After each day's use, wash contaminated clothing.
Conditions for Safe Storage, Including any Incompatibilities:	Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.

Section 8: Exposure controls and personal protection

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

	Component	Exposure limit	Value type	
National Exposure Standards:	DL-propanediol-(1,2)	10 mg/m ³ TWA		
		(particulates)		
		150 ppm	TWA	
		470 g/m ³	TWA	
		(total vapour and particulates		
Syngenta Exposure Standards:	Fludioxonil 10 mg/m³ TWA			
Biological Limit Values:	No biological limits allocated			
Engineering Controls:	No special requirements. Product is used outdoors.			
Personal Protective Equipment:	When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) Wash hands after use. After each day's use, wash contaminated clothing.			

Section 9: Physical and chemical properties

Appearance:	Beige grey to grey green liquid suspension	Boiling Point/Range:	No information available
Odour:	Sweetish	Freezing/Melting Point:	No information available
pH:	5 – 9 at 1% w/v	Solubility:	No information available
Vapour Pressure:	No information available	Specific Gravity or	1.06 g/cm3 at 20°C
Vapour Density:	No information available	Density:	

Flash Point: >100°C at 99.2 kPa

Pensky-Martens cc

Explosive Properties: Not explosive

Upper and Lower

Flammable (Explosive)

Limits in Air:

Not flammable

Oxidising Properties:

Not an oxidiser

Combustibility:

Not combustible

Ignition Temperature: Corrosiveness: No information available

Section 10: Stability and reactivity

Reactivity: No hazardous reactions by normal handling and storage according to

provisions.

Chemical Stability: Stable at normal temperatures and storage conditions

Possibility of Hazardous

Reactions:

No hazardous reactions by normal handling and storage according to provisions.

Conditions to Avoid: No decomposition if used as directed.

Incompatible Materials: No substances are known which lead to the formation of hazardous

substances or thermal reactions.

Hazardous Decomposition

Combustion or thermal decomposition will evolve toxic and irritant

Products:

vapours.

Section 11: Toxicological information

Health Effects from Likely Routes of Exposure:

Acute: Oral toxicity: **LOW TOXICITY**

Tests on rats indicate this product has a low toxicity following single

doses of undiluted product $LD_{50} = 5,000 \text{ mg/kg}$

LOW TOXICITY Dermal toxicity:

Tests on rats indicate this product has a low toxicity following skin

contact with undiluted product

 $LD_{50} = >5,000 \text{ mg/kg}$

Inhalation: **LOW TOXICITY**

Tests on rats indicate this product is not harmful due to inhalation of

undiluted product

 LC_{50} (4 hours) = >2.59 mg/L

NON IRRITANT Skin irritation:

Eye irritation: **SLIGHT IRRITANT**

Sensitisation: **NOT A SENSITISER**

Chronic: Fludioxonil technical has been extensively tested on laboratory mammals and in test-tube

systems. No evidence of mutagenic, carcinogenic, teratogenic or reproductive effects was

obtained. Liver and kidney toxicity occur at high dose levels.

Section 12: Ecological information

Ecotoxicity Toxicity to fish: Moderately toxic to fish

Rainbow trout (Oncorhynchus mykiss)

 $LC_{50} = 5.4 \text{ mg/L } 96 \text{ h}$

Toxicity to daphnia Slightly toxic to Daphnia and other aquatic Daphnia magna (Water flea): invertebrates: $EC_{50} = 30 \text{ mg/L}, 48 \text{ h}$

Moderately toxic to algae Toxicity to algae:

Pseudokirchneriella subcapitata (green algae):

 $E_rC_{50} = 5.4 \text{ mg/L}$. 72 h

Toxicity to soil dwelling organisms:

No information available

Toxicity to

Non toxic to bees terrestrial Honey bee (Apis mellifera)

invertebrates $LC_{50} = >1,000 \mu g/kg 48 h$ (contact and oral)

Persistence and Degradability:

Fludioxonil is not readily biodegradable

Mobility in Soil: Fludioxonil is immobile in soil

Bioaccumulative

Potential:

Fludioxonil does not bioaccumulate

Section 13: Disposal considerations

Disposal Methods: 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, triple rinse, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. Empty containers and product must not be burnt.

Special Precautions for

Not applicable

Incineration or Landfill:

Section 14: Transport information

LAND TRANSPORT ADG	Not a dangerous good in	n Australia	
UN Number:	None allocated	Packing Group:	None allocated
UN Proper Shipping Name:	None allocated	Special Precautions for User:	None allocated
Transport Hazard Class:	None allocated	Hazchem or Emergency Action 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. (fludioxonil)	Packing Group:	III
Transport Hazard Class:	9	Environmental hazards for Transport Purposes:	Marine pollutant

AIR TRANSPORT ICAO / IATA			
UN Number:	3082	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (fludioxonil)	Packing Group:	III
Transport Hazard Class:	9		

Section 15: Regulatory information

APVMA Product Number:	69590
Poisons Schedule (SUSMP):	5

Section 16: Any other relevant information

Date of preparation or last revision: November 2016

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 Australia Pty Ltd (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.

DISCLAIMER

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.

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