

Safety Data Sheet

Revision date: 22nd April 2010

1st version

Medallion TL

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY OR UNDERTAKING

Tradename Medallion TL

Design Code A17856B

AGI Code 43671

Company Identification

Company Syngenta Crop Protection UK Ltd

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2. HAZARDS IDENTIFICATION

Toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	EC-No.	Symbol(s)	R-phrase(s)	Concentration
Fludioxonil	131341-86-1	-	N	R50/53	11.8 % w/w
Poly(oxy-1,2-ethanediyl), al-pha-[tris(1-phenylethyl)phenyl]-omega-hydroxy-	99734-09-5, 70559-25-0	-	-	R52/53	1 – 5 % w/w
Propane-1,2-diol	57-55-6	200-338-0	-	-	8 – 15 % w/w

For the full text of the R phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.

Inhalation: Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

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.

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.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

Medical advice: There is no specific antidote available. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Extinguishing media - small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires: Use alcohol-resistant foam or water spray.

Extinguishing media which must not be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during fire fighting: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

Special protective equipment for fire fighters: Wear full protective clothing and self-contained breathing apparatus.

Further information: Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to protective measures listed in sections 7 and 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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

7. HANDLING AND STORAGE

Advice on safe handling: No special protective measures against fire required. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

Requirements for storage areas and containers: No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

Other data: Physically and chemically stable for at least 2 years when stored in the original unopened sales containers at ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
Fludioxonil	10 mg/m ³	8 h TWA	SYNGENTA
Propane-1,2-diol	10 mg/m ³ (Particulates) 150 ppm, 470 mg/m ³ (Total (vapour & particulates))	8 h TWA 8 h TWA	UK HSE UK HSE

ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

PERSONAL PROTECTIVE EQUIPMENT

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

Protective measures: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory protection: No personal respiratory protective equipment normally required. A particulate respirator may be necessary until effective technical measures are installed.

Hand protection: Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.

Eye protection: Eye protection is not usually required. Follow any site specific eye protection policies.

Skin and body protection: No special protective equipment required. Select skin and body protection based on the physical job requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	liquid.
Form:	suspension
Colour:	beige grey to light green
pH:	5 – 9 at 1% w/v
Density:	1.06 g/cm ³ at 20°C

10. STABILITY AND REACTIVITY

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

Hazardous reactions: None known. Hazardous polymerisation does not occur. Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD50 female Rat, >5,000 mg/kg
GHS-Classification: None

The toxicological data has been taken from products of similar composition.

Acute inhalation toxicity: LC50 male and female Rat, > 2.09 mg/l, 4 h.
GHS-Classification: None

The toxicological data has been taken from products of similar composition.

Acute dermal toxicity: LD50 male and female Rat, >5,050 mg/kg
GHS-Classification: None

The toxicological data has been taken from products of similar composition.

Skin irritation: Rabbit: Non-irritating.
GHS-Classification: None

The toxicological data has been taken from products of similar composition.

Eye irritation: Rabbit: Non-irritating.
GHS-Classification: None

The toxicological data has been taken from products of similar composition.

Sensitisation: Guinea Pig: Not a skin sensitizer.
GHS-Classification: None

The toxicological data has been taken from products of similar composition.

Long term toxicity: Did not show carcinogenic, tetraogenic or mutagenic effects in fludionil animal experiments.

12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

Biodegradability: Fludioxonil is not readily biodegradable.

fludioxonil

Stability in water: Degradation half life 450 – 700 d.

fludioxonil Fludioxonil is stable in water.

Stability in soil: Degradation half life: 14d.

fludioxonil Fludioxonil is not persistent in soil.

Mobility: Fludioxonil is immobile in soil.

fludioxonil

Bioaccumulation: Fludioxonil does not bioaccumulate.

fludioxonil

ECOTOXICITY EFFECTS

Toxicity to fish: LC50 *Oncorhynchus mykiss* (Rainbow trout), 3.4 mg/l, 96h.

Information given is based on data obtained from similar substances

GHS-Classification: Category 2

Toxicity to aquatic EC50 *Daphnia magna* (Water flea) 28 mg/l, 48 h.

invertebrates: Information given is based on data obtained from similar substances

GHS-Classification: Category 3

Toxicity to aquatic EbC50 *Pseudokirchneriella subcapitata* (green algae), 2.3 mg/l, **plants:** 72h.

Information given is based on data obtained from similar substances

GHS-Classification: Category 2

ErC50 *Pseudokirchneriella subcapitata* (green algae), 5.4 mg/l, 72h.

Information given is based on data obtained from similar substances

GHS-Classification: Category 2

13. DISPOSAL CONSIDERATIONS

Product: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Land Transport

ADR / RID:

UN-Number: 3082

Class: 9

Labels: 9

Packaging Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (FLUDIOXONIL)

Environmentally hazardous: Environmentally hazardous

Sea Transport

IMDG:

UN-Number: 3082
Class: 9
Labels: 9
Packaging Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (FLUDIOXONIL)
Marine pollutant: Marine pollutant

Air Transport

IATR-DGR:

UN/ID No.: 3082
Class: 9
Labels: 9
Packaging Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (FLUDIOXONIL)

15. REGULATORY INFORMATION

Symbol(s)	N	DANGEROUS FOR THE ENVIRONMENT
R-phrase(s)	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	S2	Keep out of the reach of children.
	S13	Keep away from food, drink and animal feeding stuffs.
	S20/21	When using, do not eat, drink or smoke.
	S35	This material and its container must be disposed of in a safe way.
	S57	Use appropriate containment to avoid environmental contamination.

16. OTHER INFORMATION

Use plant protection products safely. Always read the label and product information before use.
Product registration number: MAPP 15287.
Based on edition 22/04/2010, version 1.

Text of R phrases mentioned in Section 3:

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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