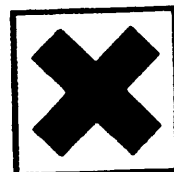


## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product name:** 'Greenshield'  
**MAFF No:** 07988

**Company name:** Miracle Professional  
 Salisbury House  
 Weyside Park  
 Catteshall Lane  
 Godalming  
 Surrey GU7 1XE

**Phone number:** 01483 410210  
**Emergency phone:** 01865 407333



IRRITANT

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Broad spectrum turf fungicide. An aqueous suspension containing 450 g/l chlorothalonil and 100 g/l carbendazim.

EEC No: 217-588-1 : chlorothalonil

Hazardous ingredient(s)	CAS No.	g/l	Symbol	R Phrases
Chlorothalonil	001897-45-6	450	Xn	R40
Carbendazim	010605-21-7	100	Xn	R40

## 3. HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system and skin.  
 May cause skin sensitisation in sensitive individuals.  
*Very toxic to fish.*

## 4. FIRST-AID MEASURES

**Inhalation** Remove patient from exposure, keep warm and at rest.  
 Obtain medical attention as a precaution.

**Skin Contact** Take off immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water. Such action is essential to minimise contact with skin. Contaminated clothing should be laundered before re-use.

**Eye Contact** Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes.  
 Obtain immediate medical attention.

**Ingestion** If swallowed seek medical advice immediately and show the container, label or this Data Sheet, if possible.  
 Do not induce vomiting.

**Medical Advice:** Chlorothalonil may produce temporary allergic reactions (redness of eyes, mild bronchial irritation, redness or rash on exposed skin). Antihistamines or steroid creams are effective treatments. Symptomatic treatment and supportive therapy as indicated.

## 5. FIRE-FIGHTING MEASURES

Non-combustible.  
 Keep fire exposed containers cool by spraying with water.

**Extinguishing media**

**Small fires:** use foam, carbon dioxide or dry powder extinguishant.

**Large fires:** use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

**Protective Equipment:**  
 Self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and coveralls.

Wash the spillage area with water. Washings must be prevented from entering surface water drains.  
 Spillages or uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

## 7. HANDLING AND STORAGE

### 7.1 Handling

Read the label before use.

Avoid contact with skin and eyes. Do not breathe spray. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

### 7.2 Storage

Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Protect from extremes of temperature. Protect from frost.

**Storage Life:** Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal protection:** When using this product refer to the label for details.

**Occupational Exposure Limits:** Not applicable to field use.

Hazardous ingredient(s)	LTEL 8hr TWA		STEL		Time min
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Chlorothalonil		0.1			
Carbendazim		5.0			

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid	Colour:	light grey
Odour:	odourless	pH (Value)	not available
Boiling point (°C):	not available	Melting point (°C):	not available
Auto Ignition Temp (°C):	not available	Flash Point (°C):	does not flash
Explosive Properties:	not applicable	Oxidising Properties:	not applicable
Vapour Pressure (mm Hg):	not available	Solubility (Water):	miscible
Freezing Point (°C):	-5	Density (g/ml):	1.26 at 25°C

## 10. STABILITY AND REACTIVITY

**Hazardous Decomposition Product(s):** Combustion or thermal decomposition will evolve toxic and irritant vapours.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	High concentration of mist may be irritant to the respiratory tract.
<b>Skin Contact:</b>	Repeated and/or prolonged contact may cause skin irritation and may increase the possibility of allergic reactions. May cause skin sensitisation in sensitive individuals. Dermal Median Lethal Dose >2000 mg/kg (rat)
<b>Eye Contact:</b>	Severe eye irritant. May cause serious damage to eyes.
<b>Ingestion:</b>	Low oral toxicity. Oral Median Lethal Dose 4180 mg/kg (rat)

## 12. ECOLOGICAL INFORMATION

**Toxicity:** *Very toxic to fish.*  
LC<sub>50</sub> rainbow trout (96 hours) approx 0.5 mg/l (by calculation).

## 13. DISPOSAL CONSIDERATIONS

Empty containers should not be used for other purposes. Do not contaminate ponds, waterways or ditches with chemical or used containers. Dispose of product concentrate, diluted product and empty containers according to the Code of Practice for the use of Approved Pesticides in Amenity and Industrial Areas (NAAC/NTC). Disposal should be in accordance with local or national legislation.

## 14. TRANSPORT INFORMATION

UN No.: 3082

<b>ROAD/RAIL:</b>	ADR/RID Class	not applicable
<b>SEA:</b>	IMDG Class - primary:	9 MISCELLANEOUS DANGEROUS SUBSTANCE
	Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains chlorothalonil 45% and carbendazim 10%)
	Marine Pollutant:	Classified as a Marine Pollutant.
	UN Packing Group Sea:	III

## 15. REGULATORY INFORMATION

<b>Classification:</b>	IRRITANT	
<b>Hazard Symbol:</b>	Xi	
<b>Risk Phrases:</b>	R36/37/38	Irritating to eyes, respiratory system and skin.
	R41	Risk if serious damage to eyes.
<b>Safety Phrases</b>	S2	Keep out of reach of children.
	S13	Keep away from food, drink and animal feeding stuffs.
	S20/21	When using do not eat, drink or smoke.
	S37/39	Wear suitable gloves and eye/face protection.
	S23	Do not breathe spray.

This product has been labelled in accordance with the Control of Pesticides Regulations, 1986. Users should ensure that they comply with any relevant local or national legislation.

The (COSHH) Control of Substances Hazardous to Health Regulations 1994 may apply to the use of this product at work.

## 16. OTHER INFORMATION

This product was previously marketed by Zeneca (MAFF 06763).

Product packed in 2 or 3 litre HDPE containers.

This data sheet was prepared in accordance with Directives 91/155/EEC and 93/112/EC.

Use: For use only as a turf fungicide.

'Greenshield' is a trade mark of ISK Biosciences Ltd.

The information on this sheet is not a specification, it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.