

SAFETY DATA SHEET



Product Name: **DACONIL TURF** Reference No: 006

Version No.: 2 Revision Date: January 2004 Date of Introduction: Pre. 1995

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name DACONIL TURF
Common name of active ingredient CHLOROTHALONIL
Intended use For use only as a Horticultural Fungicide.
Company Identification **Scotts UK Professional**
The Scotts Company (UK) Ltd
Paper Mill Lane
Bramford
Ipswich Telephone +44 (0) 1473 830 492
Suffolk IP8 4BZ
Emergency Telephone 01865 407333 (24hr)

2. COMPOSITION / INFORMATION ON INGREDIENTS

JBA No: 030586
NPK: Not applicable

Chemical Characterisation

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
Chlorothalonil	001897-45-6	217-588-1	Carc Cat 3. Xn: R40, N: R50, R53.	40.2%w/w
Propane-1,2-diol	57-55-6	200-338-0	-	<10%w/w

3. HAZARDS IDENTIFICATION

Physicochemical: Not classified.

Health:



HARMFUL

General Limited evidence of a carcinogenic effect.
Eye contact Irritating to eyes.
Skin contact May cause sensitisation by skin contact. A mild irritant to skin.
Inhalation Harmful by inhalation. Irritating to respiratory system.

Environmental:



DANGEROUS
FOR THE
ENVIRONMENT

DANGEROUS FOR THE ENVIRONMENT.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES	
General information	Chlorothalonil may produce temporary irritant reactions (redness of eyes, mild bronchial irritation, redness or rash on exposed skin). Symptomatic treatment and supportive therapy as indicated.
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 necessary to minimise contact with skin. Contaminated clothing should be laundered before re-use. Seek medical attention if irritation persists.
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.

5. FIRE FIGHTING MEASURES	
General hazard	Non-combustible.
Extinguishing media	Foam, carbon dioxide, dry powder or water fog.
Extinguishing media to avoid	Strong water jet.
Special exposure hazards	Combustion or thermal decomposition will evolve toxic and irritant vapours.
Protective equipment	Self-contained breathing apparatus and suitable protective clothing.
Further information	Keep fire exposed containers cool by spraying with water. Contain fire water run-off with, for example, temporary earth barriers.

6. ACCIDENTAL RELEASE MEASURES	
Methods for cleaning up	Ensure suitable personal protection during removal of spillages. (see also section 8). This means wearing eye protection, chemically resistant gloves, boots and coveralls. Absorb spillages onto sand, earth or any suitable absorbent material. Transfer into a labelled container for disposal (see also section 13). Wash the spillage area with water. Washings must be prevented from entering surface water drains.
Environmental considerations	Dangerous for the environment. Spillages or uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

7. HANDLING & STORAGE	
Advice on safe handling	Read the label before use. Wear suitable protective clothing (coveralls), suitable protective gloves and face protection (faceshield) when handling the concentrate. Wear suitable protective clothing (coveralls) when applying by vehicle mounted/drawn equipment. Wear suitable protective clothing (coveralls) suitable protective gloves and rubber boots when using a pedestrian controlled sprayer. Wear suitable protective clothing (coveralls) and suitable protective gloves when handling contaminated equipment surfaces. When using do not eat, drink or smoke. Wash splashes from skin or eyes immediately. Do not breathe spray. This product must only be applied by pedestrian controlled sprayer or vehicle mounted/drawn equipment. Wash hands and exposed skin before eating, drinking or smoking and after work.
Storage conditions	Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Keep in original container, tightly closed, in a safe place. Protect from frost.
Shelf 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

Exposure controls	Chlorothalonil	LTEL 8hr TWA	0.1mg/m ³	Supplier data
	Propane-1,2-diol	LTEL 8hr TWA 150ppm	474mg/m ³	Vapour & particulates (EH40/2002)
	Propane-1,2-diol	LTEL 8hr TWA	10mg/m ³	Particulates (EH40/2002)
Engineering controls	Ensure adequate ventilation of working area.			
Personal protection	Observe normal standards for handling chemicals. Avoid inhalation of dust. Wash hands before breaks and after use. Personal protective equipment is not normally required – gloves can be worn for personal hygiene. In case of accidental spillage of bulk product, wear personal protective equipment appropriate to the task (see below)			
Eye protection	Faceshield, BSEN1663F (minimum)			
Skin protection	Nitrile gloves			
Respiratory protection	Respirator EN149:2001FFP3.			
Other protection	Protective overall and rubber boots.			

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Liquid
Colour	Light Grey
Odour	Slightly pungent
pH	6.0 – 8.0
Boiling pt / range	>100°C
Melting pt / range	Not applicable
Flash point	Does not flash
Flammability	Not applicable
Freezing point	-5°C
Density	1.23 – 1.26g/ml at 25°C
Viscosity	Not applicable
Water solubility	Miscible
Additional information	None

10. STABILITY & REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	None known.
Material to avoid	None known.
Hazardous reactions	None known.
Hazardous decomposition products	Combustion or thermal decomposition will evolve toxic and irritant vapours.
Further information	None.

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11. TOXICOLOGICAL INFORMATION				
Acute Toxicity (lethal doses)	Oral median lethal dose	Rat	4200mg/kg	Low oral toxicity*
	Dermal median lethal dose	Rabbit	>20000mg/kg	Unlikely to be hazardous by skin contact*
	Median lethal concentration Inhalation	Rat	>1.96mg/l (4hrs)	Unlikely to cause harmful effects when handled and used as directed on the label.*
Acute Toxicity (irritation, sensitisation etc.)	Eye Irritation	Moderate irritant to rabbit eyes.*		
	Skin Irritation	Mild irritant to rabbit skin.*		
	Skin sensitisation	Buehler: It is a skin sensitiser in animal tests.*		
Chronic Toxicological effects / long term exposure	Long Term Exposure: Chlorothalonil is reported as a high dose threshold carcinogen in rats and mice. This is not considered to be a risk to man when handled and used as directed on the label.*			
* Source of information: Supplier data				

12. ECOLOGICAL INFORMATION					
Acute toxicity	LC ₅₀ (96hr)	0.195mg/l	Rainbow trout	Chlorothalonil	Supplier information
	EC ₅₀ (24hr)	0.882mg/l	Daphnia magna	Chlorothalonil	Supplier information
	EC ₅₀ (72hr)	0.520mg/l	Green Algae	Chlorothalonil	Supplier information
Degradability	Supplier information for Chlorothalonil. There is evidence of rapid degradation in water. There is evidence of degradation in soil				
Further information	Environmental protection. Do not contaminate surface water or ditches with chemical or used container. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body immediately. Do not allow direct spray from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing waterbody, unless a Local Environments Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1m of the top of a ditch which is dry at the time of application. Do not allow direct spray from hand-held sprayers to fall within 1m of the top of the bank of a static or flowing waterbody. Direct spray away from water.				

13. DISPOSAL CONSIDERATIONS	
User	Empty containers should not be used for other purposes. Do not contaminate ponds, waterways or ditches with chemical or used containers.
Surplus product / bulk spillage	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 (published by NAAC/NTC). Disposal should be in accordance with national and local authority regulations, e.g. special waste (e.g. Special Waste Regulations) or incineration, after consultation with the operator.

14. TRANSPORT INFORMATION	
United Nations number	UN3082
UN Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains Chlorothalonil 50%)
Road/Rail	ADR/RID Class 9/III
Sea	IMDG 9/3082/III Marine Pollutant Classified as a Marine Pollutant

15. REGULATORY INFORMATION

Classification & labelling HARMFUL. DANGEROUS FOR THE ENVIRONMENT

This Safety Data Sheet does not form part of the label approved under the Control of Pesticide Regulations 1986.

Safety data sheet available to professional user on request.

To avoid risks to man and the environment, comply with the instructions for use.



**DANGEROUS
FOR THE
ENVIRONMENT**



HARMFUL

Current registration no. UK MAFF 09265 EIRE PCS NO. 00199

Previous registration no. MAFF 07929

Risk phrases R20: HARMFUL BY INHALATION.
R36/37: IRRITATING TO EYES AND RESPIRATORY SYSTEM.
R40: LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.
R43: MAY CAUSE SENSITISATION BY SKIN CONTACT
R50: VERY TOXIC TO AQUATIC ORGANISMS.
R53: MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

Safety phrases / precautions (from the label) **Operator protection**
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle mounted/drawn equipment.
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when using a pedestrian controlled sprayer.
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling contaminated equipment surfaces.
WHEN USING DO NOT EAT, DRINK OR SMOKE.
WASH SPLASHES from skin or eyes immediately.
DO NOT BREATHE SPRAY.
THIS PRODUCT MUST ONLY BE APPLIED by pedestrian controlled sprayer or vehicle mounted/drawn equipment.
WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

Environmental protection
DO NOT CONTAMINATE SURFACE WATER OR DITCHES with chemical or used container.
DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing waterbody, unless a Local Environments Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1m of the top of a ditch which is dry at the time of application.
DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1m of the top of the bank of a static or flowing waterbody. Direct spray away from water.

Storage and disposal
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
KEEP OUT OF REACH OF CHILDREN.
KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.
WASH OUT CONTAINER THOROUGHLY and dispose of safely.
DO NOT RE-USE CONTAINER for any purpose.

When using do not eat drink or smoke.
This material and its container must be disposed of in a safe way.
Wear suitable protective clothing and gloves.
Use appropriate containment to avoid environmental contamination.

16. OTHER INFORMATION**Further information**

The Control of Substances Hazardous to Health Regulations (COSHH) may be applicable to the use of this product.

This product was previously marketed by Zeneca Professional (MAFF 06867) and by ICI (MAFF 03658)

Risk phrases referred to in section 2 for composite ingredients.

R40: Limited evidence of a carcinogenic effect

R50: Very toxic to aquatic organisms.

R53: May cause long-term adverse effects in the aquatic environment.

For further advice authorised persons (e.g. doctor) may contact the National Poisons Information Service Centre:

UK National number: 0870 600 6266

Eire (Dublin) 00 3531 8379964 or 00 3531 8379966

Sources of data

EH40/2002 and other suppliers' safety data sheets

Date of issue

January 2004

The information on this sheet is not a specification and 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.