



REVISION

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Safety Data Sheet for: **SIERRARON G**

Common name of active ingredient: Dichlobenil
Intended Use: For use only as an horticultural and aquatic herbicide
Dilution: Maximum Total Doses apply - Refer to product label.
 Application rate is dependent upon situation of use and application method – Refer to product label.

For further information contact: Professional Business Group, The Scotts Company (UK) Limited, Paper Mill Lane, Bramford, Ipswich, England IP8 4BZ. Telephone: (01473) 830492.
24hr Emergency Line Tel: 01865 407333
Date of Introduction: September 1998
Date of Withdrawal:
Date of Change: September 1999

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2. COMPOSITION INFORMATION ON INGREDIENTS (Directive 91/155/EC)

Spec. No:

Ingredient(s)	Composition	CAS No	Symbol	R phrases
Dichlobenil	6.75%w/w	001194-65-6	Xn	R21
Titanium dioxide	<1%w/w	1136463-67-7	-	-

3. HAZARDS IDENTIFICATION

Classification: None **Symbol(s):** Not required

Ingestion: Not classified as harmful. Low oral toxicity.

Eye contact: Dust may cause irritation

Skin contact: Unlikely to cause irritation

Inhalation: Unlikely to be harmful under normal conditions of use

PRECAUTIONS (from the label): WASH HANDS before meals and after work.
PRECAUTIONS FOR USE ON LAND
 HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with the chemical or used container. (Sierraron-G can be used however for the control of aquatic weeds in the presence of fish if used in strict accordance with recommendations).

PRECAUTIONS FOR USE IN WATER
 HARMFUL TO FISH OR OTHER AQUATIC LIFE. The maximum concentration of active ingredient in treated water must not exceed 3 ppm or such lower concentration as the appropriate regulatory body may require. Users must consult the appropriate water regulatory body (Environment Agency/Scottish Environment Protection Agency) before using this product on or near water and must obtain their agreement before using this product to control aquatic weeds. TREATED WATER MUST NOT BE USED FOR irrigation purposes within TWO weeks of treatment or until the active ingredient falls below 0.3 ppm.

Other information:
 This product must not be used in water supply systems. These are rain water storage, reservoirs, treatment works and distribution systems that store, treat and supply water for domestic purposes of drinking, washing and cooking.

4. FIRST-AID MEASURES		
Ingestion:	If swallowed seek medical advice immediately and show the container, label or this Data Sheet, if possible. Do not induce vomiting.	
Eye contact:	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention if irritation persists.	
Skin contact:	Take off immediately all contaminated clothing. Wash skin immediately with water or soap and water. Contaminated clothing should be laundered before reuse.	
Inhalation:	Remove patient from exposure, keep warm and at rest. Obtain medical attention if symptoms develop.	
5. FIRE-FIGHTING MEASURES		
Keep fire exposed containers cool by spraying with water. Use foam, carbon dioxide or dry powder extinguishant. Use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers. Self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.		
6. ACCIDENTAL RELEASE MEASURES		
Spillage of bulk material: Wear protective clothing as detailed in section 8. Cover spillage with moist sand, soil or sawdust. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains (see section 13). Spillages or uncontrolled discharge into watercourses must be alerted to the appropriate regulatory body.		
7. HANDLING AND STORAGE		
Storage Instructions: Read the label before use. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash face and hands before eating drinking or smoking. Keep in original container, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Store well away from corms, bulbs, tubers and seeds.		
REVISION	Shelf life: At least 2 years	
	Product packaging: 25kg carton, carton containing 4x5 kg bags.	
	Special precautions: None known	
8. EXPOSURE CONTROLS / PERSONAL PROTECTION		
For normal use(from the label): Not required when used as directed on the label.		
In case of accidental spillage or handling of bulk product: Ensure suitable personal protection during removal of spillages. This means wearing a facemask that gives protection against toxic dusts, eye protection, chemically resistant gloves, boots and coveralls.		
REVISION	Occupational Exposure Standard(s) EH40/99:	
	Titanium dioxide total inhalable dust: LTEL (8 hr TWA) 10 mg/m ³	
	Respirable dust: LTEL (8 hr TWA) 4 mg/m ³	
9. PHYSICAL AND CHEMICAL PROPERTIES		
REVISION	Physical nature: Granule	Flash point: Does not flash
	Appearance / Odour: Grey/white with aromatic odour	Flammability: Not available
	Water solubility: Insoluble	Decomposition temperature: Not available
	Lipid solubility: Not available	Hazardous polymerization: None known
	Specific Gravity: c.1.1g/ml	Explosion limits: Not applicable
	Boiling point: Not applicable	pH: Not available
	Oxidising properties: Not applicable	Other: None known
	Stability (normal conditions): Stable	
10. STABILITY AND REACTIVITY		
Conditions to avoid: None known		
Incompatible with: None known		
Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours		
11. TOXICOLOGICAL INFORMATION		
Acute Oral LD50: Oral Median Lethal Dose >5000 mg/kg (rat)	Skin : Unlikely to cause skin irritation. Dermal Median Lethal Dose >2000 mg/kg (rat)	
Acute Dermal LD50: Dermal Median Lethal Dose >2000 mg/kg (rat)	Eyes: Dust may cause irritation	
Inhalation: Unlikely to cause harmful effects under normal conditions of handling and use.	Other: None known	



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12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms. Sierraron G is approved for the control of weeds in water providing the following is taken into account:

The maximum concentration of dichlobenil in treated water must not exceed 3 ppm or such lower concentration as the appropriate regulatory body may require.

Treated water must not be used for irrigation purposes within two weeks of treatment or until the concentration of dichlobenil in the water is below 0.3 ppm.

Treatment of heavy weed growth in a water body leads to weed decay and deoxygenation. In cases where excess and rapid weed decay arises (the label recommends treatment of no more than 20% of a water body at any one time), deoxygenation of the water can affect fish.

The half-life of dichlobenil in soil can vary from 1-6 months depending on soil type and activity of micro-organisms.

LC₅₀ bobwhite quail (8 days) c.5200 mg/kg diet.

LC₅₀ mallard duck (8 days) > 5200 mg/kg diet.

Other: None

Precautions (from the label):

PRECAUTIONS FOR USE ON LAND

HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with the chemical or used container. (Sierraron-G can be used however for the control of aquatic weeds in the presence of fish if used in strict accordance with recommendations).

PRECAUTIONS FOR USE IN WATER

HARMFUL TO FISH OR OTHER AQUATIC LIFE. The maximum concentration of active ingredient in treated water must not exceed 3 ppm or such lower concentration as the appropriate regulatory body may require. Users must consult the appropriate water regulatory body (Environment Agency/Scottish Environment Protection Agency) before using this product on or near water and must obtain their agreement before using this product to control aquatic weeds.

TREATED WATER MUST NOT BE USED FOR irrigation purposes within TWO weeks of treatment or until the active ingredient falls below 0.3 ppm.

Other information:

This product must not be used in water supply systems. These are rain water storage, reservoirs, treatment works and distribution systems that store, treat and supply water for domestic purposes of drinking, washing and cooking.

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. Dispose of product and empty containers according to the 'Use of Approved Pesticides in Amenity and Industrial Areas' (NAAC/NTC publication). Disposal should be in accordance with local or national legislation.

Surplus Bulk Product / Spillage: Via local authority or authorised waste disposal contractor.

14. TRANSPORT INFORMATION:

Not classified as Dangerous for Transport

15. REGULATORY INFORMATION:

Classification: Not classified

Symbol(s): Not required

Current Registration Number: UK
MAPP 09675

Previous Registration Number(s): UK
MAFF 09263

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PRECAUTIONS (from the label):

PRECAUTIONS FOR USE ON LAND

WASH HANDS before meals and after work. **HARMFUL TO FISH OR OTHER AQUATIC LIFE.** Do not contaminate surface waters or ditches with the chemical or used container. **KEEP IN ORIGINAL CONTAINER**, tightly closed in a safe place. **EMPTY CONTAINER COMPLETELY** and dispose of safely.

PRECAUTIONS FOR USE IN WATER

WASH HANDS before meals and after work. **DO NOT DUMP** surplus herbicide in water or ditch bottoms. **KEEP IN ORIGINAL CONTAINER**, tightly closed, in a safe place. **EMPTY CONTAINER COMPLETELY** and dispose of safely. **HARMFUL TO FISH OR OTHER AQUATIC LIFE.** The maximum concentration of active ingredient in treated water must not exceed 3 ppm or such lower concentration as the appropriate regulatory body may require. **TREATED WATER MUST NOT BE USED FOR** irrigation purposes within TWO weeks of treatment or until the active ingredient falls below 0.3 ppm. Users must consult the appropriate water regulatory body (Environment Agency/Scottish Environment Protection Agency) before using this product on or near water and must obtain their agreement before using this product to control aquatic weeds.

Other information:

This product must not be used in water supply systems. These are rain water storage, reservoirs, treatment works and distribution systems that store, treat and supply water for domestic purposes of drinking, washing and cooking.

This product is classified in accordance with the Control of Pesticides Regulations 1986
The Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

16. OTHER INFORMATION

For further advice authorized persons (Doctor/Veterinary Surgeon) may contact the National Poisons Information Service Centre:

Belfast: 01232 240503
Birmingham: 0121 507 5588 or 0121 507 5589
Cardiff: 01222 709901
Dublin: 00 3531 8379964 or 00 3531 8379966
Edinburgh: 0131 5362300 or 0131 5361000
Leeds: Veterinary Only: 0133 245 0530
London: 0171 635 9191
Newcastle: 0191 2820300 or 0191 232 5131

Reference number: SDS No:050

Version: 2

Date of Sheet: 8th October 1999

The appearance of a 'REVISION' stamp and/or colour line in the left-hand side border of any of the boxes indicates a change in the information to the previous issue.

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.

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