



1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Safety Data Sheet for: **CLAROSAN**
Common name of active ingredient: Terbutryn
Intended Use: For use only as an Aquatic Herbicide
 For use in aquatic situations (eg lakes, canals, ditches, farm ponds etc)
 Maximum individual does: 10 kg per 1000m³
 Maximum number of treatments: 1 per annum
Dilution: Refer to the product label

For further information contact: Scotts UK Professional, 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:
Date of Withdrawal:
Date of Change: Change from Novartis to Scotts June 1999

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

Spec. No:

Ingredient(s)	Composition	CAS No	Symbol	R phrases
Terbutryn	1%w/w	886-50-0	N	50-53

3. HAZARDS IDENTIFICATION

Classification: None **Symbol(s):** Not required
Ingestion: Low toxicity
Eye contact: Unlikely to cause eye irritation
Skin contact: Low toxicity, Unlikely to cause skin irritation
Inhalation: Unlikely to be harmful

PRECAUTIONS (from the label): WASH HANDS before meals and after work. DO NOT USE TREATED WATER for irrigation purposes within 7 days of treatment.

4. FIRST-AID MEASURES

When giving first aid always use personal protective equipment if you are likely to be contaminated by contact with the person you are giving aid to-see section 8. Remove affected person from exposure to a well ventilated area. Protect from excessive heat loss.

General First Aid: Remove the affected person from exposure to a well ventilated area and protect from excessive heat loss. In cases of suspected poisoning, immediately call a physician.
Ingestion: Rinse out mouth with water and seek medical advice immediately. Do not induce vomiting. Keep patient at rest. Show the label where possible.
Eye contact: Flush eyes with clean water immediately for 15-20 minutes.
Skin contact: Remove contaminated clothing and thoroughly wash exposed areas with soap and water. Wash contaminated clothing before re-use. If feeling unwell seek medical advice.
Inhalation: See 'General First Aid' above.
Poisoning Symptoms: Symptoms are slow in onset and may include diarrhoea, weakness, occasionally laboured breathing and convulsive movements.
Antidote: No specific antidote is known. Treatment should be symptomatic and supportive.

5. FIRE-FIGHTING MEASURES			
This preparation is non-flammable. In the presence of fire dangerous fumes may be given off. Protective clothing and breathing apparatus must be worn. Extinguishing media include: powder, foam, carbon dioxide or water spray (do not use direct jet of water). Measures should be taken to prevent contaminated extinguishing media from seeping into ground, contaminating watercourses or spreading uncontrollably.			
6. ACCIDENTAL RELEASE MEASURES			
Personal precautions: (see also section 8); Ensure suitable personal protection during removal of spillages. Clean up methods: Spillages should be cleared up immediately. Sweep up carefully, do not raise clouds of dust and place in a labelled container for safe disposal (see also section 13). Contact Local Authority (Environmental Health Department) or specialist Disposal Contractor or supplier for information on safe disposal. Spillages or uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.			
7. HANDLING AND STORAGE			
Store the product in closed, original container in a cool well-ventilated place. Store separately from food and feed. Keep out of the reach of children. Do not re-use containers for any other purpose. Do not stack more than 2 pallets high. Shelf life: At least 2 years Product packaging: 5 kg Special precautions: None known			
8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
For normal use (precautions from the label): 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. DO NOT USE TREATED WATER for irrigation purposes within 7 days of treatment. In case of accidental spillage or handling bulk product: Wear suitable personal protective clothing. Occupational Exposure Standard(s): None assigned.			
9. PHYSICAL AND CHEMICAL PROPERTIES			
Physical nature:	Granules	Flash point:	Not available
Appearance / Odour:	Beige/brown	Flammability:	Non-flammable
Water solubility:	Soluble	Decomposition temperature:	Not available
Lipid solubility:	Not available	Hazardous polymerization:	Not available
Bulk Density:	0.5 kg/l	Explosion limits:	Not available
Boiling point:	Not applicable	pH:	Not available
Oxidising properties:	Not available	Other:	None known
10. STABILITY AND REACTIVITY			
Stability (normal conditions):	Chemically stable under standard conditions		
Conditions to avoid:	None known		
Incompatible with:	None known		
Hazardous decomposition products:	None known		
11. TOXICOLOGICAL INFORMATION			
Acute Oral LD ₅₀ :	Rat: >10,000 mg/kg	Skin :	Rabbit: Non-irritating Guinea-pig: Non-sensitising
Acute Dermal LD ₅₀ :	Rat: >2150 mg/kg	Eyes:	Rabbit: Non-irritating
Inhalation:	Not available	Other:	Human toxicology: No cases of human poisoning are known.



12. ECOLOGICAL INFORMATION

Terbutryn

Fish LC₅₀: (96 h) bluegill/carp/perch: 4.0 mg/l **trout:** 3.0 mg/l

Daphnia EC₅₀ (48h): 2.66 mg/l

Bees: Non toxic

Bird LD₅₀: Non toxic

Other: Very Toxic to Algae

Precautions (from the label): DO NOT DUMP surplus herbicide in water or ditch bottoms. DO NOT USE TREATED WATER for irrigation purposes within 7 days of treatment.

The maximum concentration of active ingredient in the water must not exceed 0.1 ppm or such lower concentration as the appropriate water regulatory body may require.

If the water body to be treated with the product is subject to the Water Resources Act 1991 and the Control of Pollution Act 1974, users must consult the appropriate water regulatory body (Environment Agency / Scottish Environment Protection Agency) and must obtain their agreement before using the product.

13. DISPOSAL CONSIDERATIONS

User: Disposal should be in accordance with local or national legislation, via local authority or authorised waste disposal contractor

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

14. TRANSPORT INFORMATION:

UN No: 3077

Proper Shipping Name: Environmentally Hazardous Substance, Solid NOS (contains terbutryn).

Class: 9

Packing Group: III

ADR Item No: 12(c)

Marine Pollutant: No

IMDG: Free

15. REGULATORY INFORMATION:

Classification: None

Symbol(s): Not required

Current Registration Number: UK
MAFF 09394

Previous Registration Number(s): UK UK
MAFF 08396 MAFF 03859

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.

PRECAUTIONS (from the label): 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. DO NOT USE TREATED WATER for irrigation purposes within 7 days of treatment.

The maximum concentration of active ingredient in the water must not exceed 0.1 ppm or such lower concentration as the appropriate water regulatory body may require.

If the water body to be treated with the product is subject to the Water Resources Act 1991 and the Control of Pollution Act 1974, users must consult the appropriate water regulatory body (Environment Agency / Scottish Environment Protection Agency) and must obtain their agreement before using the product.

16. OTHER INFORMATION

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

Belfast: 01232 240503
Birmingham: 0121 507 558 or 0121 507 5589
Cardiff: 01222 709901
Dublin: 00 3531 8379964 or 00 3531 8379966
Edinburgh: 0131 5362300 or 0131 5361000
Leeds: 01132 430715 or 01132 923547
London: 0171 635 9191
Newcastle: 0191 232 5131

Reference number: SDS No:051

Version: 001

Date of Sheet: 18 June 1999

The appearance of a 'REVISION' stamp in 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.