



1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Safety Data Sheet for: **ROSECLEAR GUN!**

Common name of active ingredient: Bifenthrin and flutriafol
Intended Use: For use only as a Home Garden Insecticide and Fungicide on Roses
Dilution: N/A – product is formulated as a ready to use product
Maximum number of treatments: Four per year - refer to product label for full instructions for use.

For further information contact:
 The Scotts Company (UK) Limited, Salisbury House, Weyside Park, Catteshall Lane, Godalming, Surrey, GU7 1XE.
 Telephone: (01483) 410210.
24hr Emergency Line Tel: 01865 407333
Date of Introduction: April 2000
Date of Withdrawal: -
Date of Change: -

2. COMPOSITION INFORMATION ON INGREDIENTS (Directives 91/115 EEC and 93/112/EC)

Spec. No:	Ingredient(s)	Composition	CAS No	Symbol	R phrases
	Bifenthrin	0.04g/l	82657-04-3	T; N	R25 - 50/53
	Flutriafol	0.1 g/l	76674-21-0	Xn	R20/21/22-52/53

3. HAZARDS IDENTIFICATION

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

Ingestion: Not classified as a harmful by ingestion

Eye contact: Minimal irritation, not classified as an irritant to eyes

Skin contact: Not irritating to skin

Inhalation: Unlikely to cause harmful effects under normal conditions of handling and use.

PRECAUTIONS (from the label): KEEP OFF SKIN. WASH HANDS AND EXPOSED SKIN AFTER USE. DO NOT BREATHE SPRAY. KEEP OUT OF REACH OF CHILDREN AND PETS. DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate ponds or streams. HIGH RISK TO BEES. APPLY AWAY FROM BEES. EMPTY CONTAINER THOROUGHLY and dispose of safely.

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. Seek medical attention if irritation persists.

Skin contact: Take off contaminated clothing. Wash skin with soap and water. Contaminated clothing should be laundered before reuse.

Inhalation: Remove patient from exposure, keep warm and at rest. If breathing difficulty occurs and persists, obtain medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use foam, carbon dioxide or dry chemical. Soft stream of water fog only if necessary. Isolate fire area. Evacuate downwind. Do not breathe smoke, gases or vapour generated. Hazardous decomposition products may comprise of: carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride. Prevent contamination of waterways, sewers, etc., by collecting run-off.

Protective Equipment: Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear suitable protective clothing as detailed in section 8. Keep unprotected persons and animals out of the area.

Clean up methods:

Isolate and post spillage area. Keep material out of streams and sewers. Dike to confine spill and absorb with an absorbent such as clay, sand or soil. Transfer to a container for disposal. 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. See section 13 for disposal.

7. HANDLING AND STORAGE

Handling:

Read the label before use.

For normal use: KEEP OFF SKIN. DO NOT BREATHE SPRAY. WASH HANDS AND EXPOSED SKIN AFTER USE.

Storage instructions:

Store in a cool, dry, well-ventilated place. Keep in original container, tightly closed, out of reach of children and pets. Keep away from food, drink and animal feed stuffs. Protect from direct sunlight, frost and temperature in excess of 40°C

Shelf life: At least 2 years
Product packaging: Up to 3 litre trigger spray pack
Special precautions: Protect from extremes of temperature

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

For normal use:

Read the label before use.

None required – gloves may be worn for personal hygiene if desired.

From the label: KEEP OFF SKIN. DO NOT BREATHE SPRAY. WASH HANDS AND EXPOSED SKIN AFTER USE.

In case of accidental spillage or handling of bulk product:

Ventilation: Use local exhaust at all process locations where vapour or mist may be emitted. Ventilate all transport vehicles prior to unloading.

Wear coveralls and suitable eye protection. In case of splashes/spray exposure wear suitable respiratory protection.

Gloves: Wear chemically protective gloves.

Personal hygiene: Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking or smoking. Shower at end of work day.

Occupational Exposure Standard(s) EH40/99:

All present at <0.04g/l:

Flutriafol: 1.5 mg/m³ (supplier)

1-butanol: STEL 15min 154mg/m³ (can be absorbed through the skin)

Aromatic hydrocarbon has a PEL/TLV of 100ppm (supplier).

Propylene Glycol: LTEL 8hr TWA 150ppm, 474 mg/m³ for vapour and particulates; particulates only 10 mg/m³

Sodium hydroxide: STEL 15 min 2mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical nature: Aqueous liquid
Appearance / Odour: White opaque liquid
naphthalene like odour
Water solubility: Soluble
Lipid solubility: Not available
Specific gravity: 1.0 g/ml @ 20°C
Boiling point: 100°C
Oxidising properties: None known

Flash point: Not applicable
Flammability: Not available
Decomposition temperature: Not available
Hazardous polymerization: None known
Explosion limits: Not applicable
pH: Approx 6-8
Other: Not available

10. STABILITY AND REACTIVITY

Stability (normal conditions): At least 2 years

Conditions to avoid: Extremes of temperature

Incompatible with: Not known

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



11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀: (rat)>2000 mg/kg
Acute Dermal LD₅₀: (rat)>4000 mg/kg
Skin : Non irritant to skin (rabbit)
Eyes: Mild irritant to eyes (rabbit); non sensitiser to guinea pig skin.
Inhalation: No data available for product, unlikely to cause harmful effects under normal conditions of handling and use.
Other: None known for the product.

12. ECOLOGICAL INFORMATION

Bifenthrin

Physical: Bifenthrin has a Log P_{ow} 6.0, a high affinity for organic matter, and is not mobile in soil. Therefore little potential for movement into ground water. Potential for bifenthrin to bioaccumulate (BCF: 11750).

Toxicology: Very toxic to aquatic organisms. May cause long term adverse effects to the aquatic environment.

LC₅₀ (Fish): 0.15 - 0.35 µg/L ; EC₅₀ (Daphnia): 1.6 µg/L. Care should be taken not to contaminate the aquatic environment.

LD₅₀ (birds) 1800 mg/kg - 2150 mg/kg.

Flutriafof

Physical: Moderate mobility in soil. Absorption depends on soil pH and organic matter. The substance has a low potential for bioaccumulation. No evidence of hydrolysis or photodegradation in water.

Aquatic Toxicity (based on similar products): Rainbow trout: 96 hour LC₅₀ = 7.9 mg/l; *Daphnia*: 48 hours EC₅₀ = 7.5 mg/l; Algae: EC₅₀ = 4.6 ..8.6 mg/l

Precautions (from the label): DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate ponds or streams. HIGH RISK TO BEES. APPLY AWAY FROM BEES. EMPTY CONTAINER THOROUGHLY and dispose of safely.

13. DISPOSAL CONSIDERATIONS:

Amateur: Place empty bottles in domestic refuse.

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

14. TRANSPORT INFORMATION:

Not classified

15. REGULATORY INFORMATION:

Classification: Not classified **Symbol(s):** Not required

Current Registration Number: UK
MAPP 09923

Previous Registration Number(s): Not applicable

This product is classified under the Control of Pesticides Regulations 1986

PRECAUTIONS (from the label): KEEP OFF SKIN. WASH HANDS AND EXPOSED SKIN AFTER USE. DO NOT BREATHE SPRAY. KEEP OUT OF REACH OF CHILDREN AND PETS. DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate ponds or streams. HIGH RISK TO BEES. APPLY AWAY FROM BEES. EMPTY CONTAINER THOROUGHLY and dispose of safely.

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: 029 2070 9901
 Dublin: 00 3531 8379964 or 00 3531 8379966
 Edinburgh: 0131 5362300 or 0131 5361000
 Leeds: Veterinary Only: 0113 245 0530
 London: 020 7635 9191
 Newcastle: 0191 232 5131

Reference number: SDS No:207

Version: 1

Date of Sheet: 5th April 2000

The appearance of a 'REVISION' stamp and/or colour line 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.