



1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY				
Safety Data Sheet For:	BUG CLEAR GUN!			
Common name of active ingredient:	Bifenthrin			
Intended use:	For use only as a Home Garden Insecticide and Mite Killer For use on ornamentals and label listed edible crops <u>only</u> .			
Dilution:	Ready to use			
For further information contact:	Consumer Business Group, The Scotts Company (UK) Limited, Salisbury House, Weyside Park, Catteshall Lane, Godalming, Surrey GU7 1XE. Tel: 01483 410 210			
24 Hour Emergency Telephone Line:	01865 407333			
Date of Introduction:	September 2000			
Date of Withdrawal:	-			
Date of Change:	-			
2. COMPOSITION INFORMATION ON INGREDIENTS (Directive 91/155/EC & 93/112/EC)				
Spec No.	007508			
Ingredient(s)	Composition	CAS No.	Symbols	R Phrases
Bifenthrin	0.0043%w/w (0.04g/l)	82657-04-3	T; N	R25-R50/53
Solvent naphtha (petroleum) heavy aromatic	<0.2%w/w	64742-94-5	Xn; N	R65-R51/53
3. HAZARDS IDENTIFICATION				
Classification: (UK COPR)	NOT CLASSIFIED		Symbol(s):	NOT REQUIRED
Ingestion:	Low oral toxicity			
Eye contact:	May be minimally irritating to the eyes.			
Skin contact:	Unlikely to be irritating and harmful in contact with skin.			
Inhalation:	Low toxicity, unlikely to be associated with any adverse effects.			
PRECAUTIONS (From the label): KEEP OFF SKIN. DO NOT BREATHE SPRAY. WASH HANDS AND EXPOSED SKIN AFTER USE. KEEP AWAY FROM CHILDREN & PETS. DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate ponds or streams. Cover or remove fish bowls and tanks before spraying. DO NOT ALLOW direct spray from hand held sprayers to fall within 2 metres of surface waters or ditches; direct spray away from water. EXTREMELY DANGEROUS TO BEES. Do not spray crops in open flower. KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. 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. Reversible skin sensations have been reported. Ordinary skin salves have been found useful in reducing any discomfort. This should subside in 12 hours.			
Inhalation:	Remove patient from exposure, keep warm and at rest. If breathing difficulty occurs and persists, obtain medical attention.			
5. FIRE FIGHTING MEASURES				
Suitable extinguishing media:	Powders, foam and carbon dioxide (CO ₂)			
Not suitable extinguishing media:	Water (the product is hazardous for the environment)			
Specific fire fighting methods:	Isolate fire area. Evacuate downwind. Contain the extinguishing fluids by bunding (the product is hazardous for the environment). Do not attempt to fight the fire without suitable protective equipment. Do not breathe fumes.			

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear protective clothing as detailed in section 8
Environmental precautions:	Do not allow product to spread into the environment. Contain the spilled material by bunding (product is hazardous for the environment).
Methods for cleaning up:	
-Recovery:	Recover the product with absorbent material.
-Neutralisation:	Absorb spillage with: earth or sand. Neutralise non-recoverable product with: a basic solution and an appropriate alcohol (methanol, ethanol or isopropanol)
Cleaning / decontamination:	Wash with plenty of water and detergent.
Disposal:	Dispose of contaminated material at an authorised site.

7. HANDLING AND STORAGE

Storage instructions: Protect from frost. Store in a cool, dry, well-ventilated place protected from humidity, away from any source of ignition. Keep in original container, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs.

Shelf life:	At least 2 years.
Product packaging:	800ml HDPE trigger-spray bottles, outers of 12x800ml
Special precautions:	Slightly combustible, may support combustion at elevated temperatures. Burning and thermal decomposition may form toxic by products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

For normal use: None required – gloves may be worn for personal hygiene if desired

Precautions (from the label):

KEEP OFF SKIN. DO NOT BREATHE SPRAY. WASH HANDS AND EXPOSED SKIN AFTER USE. KEEP AWAY FROM CHILDREN & PETS. KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. Empty CONTAINER THOROUGHLY and dispose of safely.

In case of accidental spillage:

Personal protective equipment: Protective rubber gloves. Neoprene protective gloves. Nitrile protective gloves. Safety spectacles. Protective clothing. Do not eat, drink or smoke. Remove contaminated clothing, and wash skin with soap and water. In the event of insufficient ventilation: Filtering respiratory protective device with a specific pesticide canister.

Occupational Exposure Standard(s) EH40:

None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical nature:	Liquid	Flash point:	Not available
Appearance/odour:	Colourless, slightly opalescent, with aromatic naphthalene like odour	Flammability:	Not available
Water solubility:	Soluble	Decomposition temperature:	Not available
Lipid solubility:	Not available	Explosion limits:	Not available
Specific gravity:	Approx. 1	pH:	5-7
Boiling point:	Not available	Other:	Hazardous polymerisation will not occur.
Oxidising properties:	Not available		

10. STABILITY AND REACTIVITY

Stability (normal conditions):	At least 2 years
Conditions to avoid:	Not available
Incompatible with:	Excessive heat and fire
Hazardous decomposition products:	Combustion or thermal decomposition may evolve carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀:	Product (Supplier): (rat)>5000 mg/kg. Low oral toxicity. Active ingredient (bifenthrin): (rat) 54.5 mg/kg.
Acute Dermal LD₅₀:	Product (Supplier): (rat)>10 000 mg/kg. Active ingredient (bifenthrin): (rabbit) >2000 mg/kg.
Ingestion:	Product has low oral toxicity.
Acute Inhalation LC₅₀:	Product (Supplier): (rat) >5mg/l/4hr. Low toxicity
Skin:	Product (Supplier): Unlikely to be irritating and harmful in contact with skin.
Eyes:	Product (Supplier): Minimally irritating to the eyes.
Other	Product (Supplier): Not available



12. ECOLOGICAL INFORMATION

All information below is for the active ingredient bifenthrin:

Daphnia: EC₅₀: 1.6µg/l
Fish:LC₅₀: (96h): Values range from 0.15 µg/l to 0.35 µg/l (supplier).
Birds: LD₅₀: Values from 1800 mg/kg to >2150 mg/kg (supplier).
Bees: (oral) 0.1 µg/bee; (contact) 0.01462 µg/bee.
Biodegradation: Half life range from 65-125 days depending on soil type (supplier).
Other: Bifenthrin has a high Log Pow (>6.0), high affinity for organic matter and is immobile in soil. Therefore, there is little potential for movement into ground water. Bifenthrin has the potential to bioconcentrate (BCF = 11,750). Very toxic to aquatic organisms. May cause long-term adverse effects to aquatic environment.

Precautions (from the label):
 DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate ponds or streams. Cover or remove fish bowls and tanks before spraying. DO NOT ALLOW direct spray from hand held sprayers to fall within 2 metres of surface waters or ditches; direct spray away from water. EXTREMELY DANGEROUS TO BEES. Do not spray crops in open flower.

13. DISPOSAL CONSIDERATIONS

User: 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

This product is classified under the Control of Pesticides Regulations 1986

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Current Registration Number: UK
 MAFF 10127

Previous Registration Number(s): NOT APPLICABLE

16. OTHER INFORMATION

For further advice authorised 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: 00 353 1 837 9964 or 00 353 1 837 9966
Edinburgh: 0131 536 2300 or 0131 536 1000
Leeds: Veterinary only: 01132 450530
London: 020 763 59191
Newcastle: 01912 820300 or 01912 325131

Reference number: SDS No: 215
Version: 1
Date of Sheet: 29th August 2000

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.