

MSDS Sheet

Edition: April 2013, Version 1  
Trade name: Bugshield  
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1. Identification of the substance/mixture and of the company/undertaking

Product name and code: Bugshield Cats & Dogs  
Bugshield Horse Protect  
Bugshield Garden

Use: Biological insecticide

Identification company: Green balance BV  
Oosteinde 73c  
1647 AD Berkhout  
The Netherlands  
Tel.: +31(0)229-551604  
Fax.: +31(0)229-551431  
E-mail: info@gaiasan.nl  
Website: www.gaiasan.nl

Phone number in case of emergencies: 112

2. Hazards identification

Classification:  Xi Irritating

Summary for emergencies: Irritating on the skin, irritating in the eyes, no danger by inhalation.

Environmental risks: None

3. Composition/information on ingredients

N° CAS	N° EINECS	NAME	CLASSIFICATION	CONCENTRATION (v/v)
106-24-1	203-377-1	Geraniol	Xi	180 g/l +/- 6 %

4. First aid measures

In general, if symptoms occur, consult a doctor. Never give anything to an unconscious person.

Contact with the eyes: Check if there are contact lenses, remove them. Rinse the (opened) eyes with enough water.

Contact with the skin: Rinse thoroughly with water

Swallowing: Drink plenty of water, seek medical advice, show the label

Inhalation: Supply fresh air, consult a doctor if symptoms persist.

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5. Fire fighting measures

Suitable extinguishing: CO<sub>2</sub>, powder, foam or sand

Unsuitable Extinguishing: Water

Specific hazards during burning of the product: None

6. Accidental release measures

Personal precautions: When handling, there is the risk of long skin contact of the product; wear gloves and goggles, do not swallow the product, wash hands thoroughly after the work.

Precautions to protect the environment: Avoid pouring the product into drains or waterways.

Measures for cleaning / reclamation: Mix the product with absorbent materials such as Sand, peat, sawdust.

7. Handling and storage

Requirements apply to both the handling and the storage

Handling: No special security measures

Fire and explosion protection: Non-flammable, non-explosive

Warehousing: Store in a conditioned dark room, between 8°C and 20°C, to keep the optimal function of the product.

8. Exposure controls/personal protection

Exposure controls and personal protection: Exposure limits per INRS ND 2098-174-99 and ND 2114-176-99

Exposure limit according 2000/39/CEE and 98/24/CE

Protective equipment: When handling, there is the risk of long skin contact of the product; wear gloves and goggles, do not swallow the product, wash hands thoroughly after the work.

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9. Physical and chemical properties

Colour	Colourless to gray-white
Odour	Citron
pH-Value (20°C)	6 - 7
Melting point / range (°C)	Not applicable
Boiling point (°C)	Not applicable
Flash point (°C)	Product is not flammable
Ignition (°C)	Not applicable
Vapor pressure (°C)	Not applicable
Thickness (g/cm <sup>3</sup> )	0,962 g/ml at 25°C
Bulk density (kg/m <sup>3</sup> )	Not applicable
Solubility in water ( 20°C in g/l)	Completely miscible

10. Stability and Reactivity

Stability: The product is stable at least 2 years, warehousing please see §7.

Conditions to avoid: Not applicable

Matters to be avoided: Not applicable

Hazardous reactions: Not applicable

Hazardous reaction products: No dangerous reaction products

11. Toxicological information

To our knowledge, this product is classified as not hazardous to health, if it is used under the recommended conditions for use in §6, 7 and 8.

Acute toxicity of geraniol: DL50 oral rat: >3600 mg/kg

Toxicity of formulation: Acute oral toxicity, LHS laboratory - OCDE standard, section 4, 401 (dose: 20 g / kg): no toxicity  
Acute dermal toxicity, LHS laboratory - OCDE standard, section 4, 402 (dose: 1 g / kg): no toxicity  
Acute inhalation toxicity / Acute respiratory toxicity, LHS laboratory - OCDE standard, section 4, 403 (dose: 60 ml for 2 hours): no toxicity

Dermal sensitization, LHS laboratory - OCDE standard section 4, 404 (dose: patch 0.2 ml): no sensitization

Skin irritation

Eyes irritation

Mucosa cause sensitization of the respiratory tract: May cause allergic reactions in uncontrolled long skin contact

Mutagenic effect on germ cells: No mutagenic effect of the formulation

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Continuation 11. Toxicological information

Carcinogenicity: No data available  
Reproduction: No data available  
Toxicity of some organs: No data available  
Aspiration: No data available

Local effect:

On the skin: No known significant effects or critical hazards  
On the eyes: No known significant effects or critical hazards  
Inhalation: No significant effects or critical hazards.  
Ingestion: No known significant effects or critical hazards

12. Ecological information

Ecotoxicity: No effects are known  
Mobility: Not defined  
Persistence: Not affected  
Biodegradability: Biodegradable  
Bioaccumulation: Not affected  
Other specific hazards: No significant effect or threats

13. Disposal considerations

Waste: This product is not labelled as hazardous waste  
Contaminated containers: Empty containers; leave the label on the container  
Local rules: Please refer to local regulations for disposal  
Note EU / European Waste Catalogue  
Empty packaging: Empty cans can be recycled

14. Transport Information

Not classified as a hazardous material / dangerous goods

Goods should be transported in a conditioned dark room, between 8°C and 20°C, to keep the optimal function of the product.

15. Regulatory information

Classification of the formulation:  
Dangers in the use:



Xi Irritating  
Skin irritating  
Eye contact irritating, danger of serious damage to eyes  
Inhalation, no effects and dangers

Green Balance BV  
Oosteinde 73c, 1647 BC Berkhout, The Netherlands  
www.gaiasan.nl



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Continuation 15. Regulatory information

Hazards associated with incorrect use of the product: None  
Hazards to the environment: None  
Non-toxic, do not swallow when eating

Please take sufficient care when handling biocides.

Safety advice: S2: Keep out of reach of children  
S24: Avoid contact with skin  
S25: Avoid contact with eyes  
S26: In case of eye contact rinse thoroughly with water and contact physician

16. Other information

Product is in conformity with Directive 98/8/EC.  
The formulation is in accordance with the EEC Regulation 2092/91.

Hazardous substances in the formulation:

N° CAS	N° EINECS	NAME	CLASSIFICATION	CONCENTRATION (v/v)
106-24-1	203-377-1	Geraniol	Xi	180 g/l +/- 6 %

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The data are based on the current state of knowledge and experience. The Safety Data Sheet describes products with a view to safety. This information is no guarantee of product properties. It is the obligation of the user to use this product with care and the applicable laws, instructions and regulations to observe.