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**MATERIAL SAFETY DATA SHEET**  
(REACH regulation (EC) n° 1907/2006)  
**BIOSPOTIX CAT SPOT ON**

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## 1) IDENTIFICATION OF THE PREPARATION AND COMPANY

Commercial name of the product: BIOSPOTIX CAT SPOT ON  
Product Reference: BSC5

Identification of the substance: Geraniol

Use of the substance: Biocide (Repellent) active substance according Regulation (EC) N°98/8

Company identification:

LABORATOIRE BIOGANCE  
ZONE INDUSTRIELLE ANJOU ATLANTIQUE  
RUE DES CRETES  
49123 CHAMPTOCE SUR LOIRE  
FRANCE

Emergency Phone number: + 33.241.73.15.15

Email: [info@biogance.fr](mailto:info@biogance.fr)

## 2) HAZARDS IDENTIFICATION

Classification of the substance or mixture:

### According to 67/548/EEC

Xi, R38: Irritation to skin  
R43: May cause sensitization by skin contact  
R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

### According to Regulation (EC) N° 1272/2008 (CLP)

H315: Causes skin irritation  
H317: Causes skin allergy  
H411: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Information pertaining to special dangers for human and environment:

Adverse physicochemical effects: No special remarkable effects

Adverse human health effects and symptoms: No special remarkable effects

Averse environmental effects: No special remarkable effects

Other hazards: none

## 3) COMPOSITION/INFORMATION ON INGREDIENTS

Raw material:	Active substance:	GERANIOL
	CAS number:	106-24-1
	EINECS/ELINCS:	203-377-1
Chemical Name:	Geraniol	
Main Ingredient:	0,75% Geraniol	
Additional info:	Non Active substance:	Aqua ad 100 %

## 4) FIRST AID MEASURES

General information: Consult a physician if problems persist  
In case of inhalation: No special measure is required

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In case of skin contact:	Water and soap
In case of eyes contact:	Rinse immediately carefully and thoroughly with water
In case of ingestion:	Rinse mouth thoroughly with water .Do not induce vomiting
Self-Protection of the first aider:	No special measures are necessary
Information to physician:	Bitter plant oil may cause vomiting

## 5) FIRE-FIGHTING MEASURES

Suitable extinguishing media: Foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder  
Extinguishing media which shall not be used for safety reasons: none  
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: none  
Special protective equipment for fire-fighters: Use suitable breathing apparatus  
Additional information:  
Fire class: Non -combustible (VbFcode)

## 6) ACCIDENTAL RELEASE MEASURES

Personal Precautions: Special danger of slipping by leaking/spilling product  
Environmental Precautions: Do not allow to enter drains/surface water/ground-water  
Methods for cleaning up: Take up with oil-absorbing compound  
Additional information: none

## 7) HANDLING AND STORAGE

### Handling:

Advices on safe handling: Avoid contact with skin and eyes  
Protective measures: No special measures required  
Technical measures:  
Measures to prevent aerosol and dust generation: none  
Measures to protect the environment: Do not allow to enter drains/surface water/ground water.  
Specific requirements or handling rules: none  
Precautions against fire and explosion: Usual measures for fire prevention  
Further information: none

### Storage:

Technical measures and storage conditions: Store in the original package  
Packaging materials: No special requirements  
Requirements for storage rooms and vessels: Oleum resistant material  
Hints on joint storage: No special requirements  
Further information on storage conditions:  
Storage temperature: 20-30° c  
Relative air humidity (%): No special requirements  
Storage stability: stable without degradation  
Maximum period of storage: (time): 3 years  
Storage class: 12  
Specific use: none  
Recommendations: Observe technical data sheet

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## 8) EXPOSURE CONTROLS /PERSONAL PROTECTION

Exposure limit values

Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring: Does not contain substances fixing an occupational exposure limit.

Occupational exposure controls: No exposure limit

Exposure controls

Personal protection equipment:

Respiratory protection: No personal respiratory protective equipment normally required.

Hand Protection: Protective gloves

Eye Protection: Eye glasses

Body Protection: not required

## 9) PHYSICAL AND CHEMICAL PROPERTIES

GERANIOL:

General information:

Appearance Form: at room temperature liquid

Physical state: at 30° C clear liquid

Colour: colourless

Odour: Essential oils

Important health, safety and environmental information:

Safety relevant basis data:

pH value: neutral

Boiling point: 224°C-226°C

Valour pressure: not applicable

Density: (at 20°C): 0,870-0,885 g/cm<sup>3</sup> (25°C)

Bulk density: -

Solubility: 0,1 g/l

Water solubility: (g/l) soluble

Fat solubility (n-octanol at 20°C): 250g/l

Soluble (g/l) in Isopranoanol at 20°C: 80-100g/l

Hydrolysis rate: -

Partition coefficient n-octanol/water (log p O/W): -

Viscosity: -

Substance group relevant properties:

Explosives: not explosive

Flammable gases: -

Auto Ignition temperature (AIT): 395°C

Melting point /area: -15°C°C

Other information:

Solvent content (%): 0%

## 10) STABILITY AND REACTIVITY

Conditions to avoid: strong oxidizing agents, acids, bases

Materials to avoid: -

Hazardous decomposition products: none

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Additional information:-

## 11) TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution: -

Non -human toxicological data: -

Human toxicological data: -

Toxicological tests: -

Acute effects: -

Acute oral toxicity: LD50 rat > 3600mg/kg

Acute dermal toxicity: LD50 rat > 5000 mg/kg

Acute inhalative toxicity: -

Specific symptoms in animal studies: none

Irritant and corrosive effects: irritating to skin

Primary irritation to the skin: irritant

Irritation to eyes: Irritant

Irritation to respiratory tract: -

Sensitisation:

In case of skin contact: sensitization of skin contact possible

In case of inhalation: -

Repeated dose toxicity (subacute, subchronic, chronic): No indications of toxic effects

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): No indications of toxic effects

Phototoxicity: -

Experiences made in practice:

Observations relevant to classification: No indications of possible toxic effects.

General remarks: -

## 12) ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic toxicity

Acute fish toxicity: LC50 (rainbow trout): 3,2 mg/l

Acute daphnia toxicity: EC50 (big water flea) >100mg/l

Algae toxicity: EC50 5 Scenedesmus sub) : >70mg/l

Terrestrial toxicity:

Useful insect toxicity: -

Acute earthworm toxicity: -

Effects on soil microorganisms -

Mobility

Known or predicted distribution to environmental compartments: -

Surface tension: -

Adsorption /Desorption: Medium to low mobility

Persistence and degradability:

Abiotic degradation:

Biodegradation: Aerobic, readily biodegradable (according to oecd criteria)

Bioaccumulative potential: No bioaccumulative potential

Results of PBT assessment: Does not fulfill the criteria for PBT classification

Other effects: -

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### 13) DISPOSAL CONSIDERATIONS

Appropriate disposal/Product: Must be made according to official local, state and federal regulations.  
Disposal name: Natural Plant Oil  
List of proposed waste codes/waste designations in accordance with AVV: 20 01 26  
List of proposal waste codes/ waste designations in accordance with EWC: 20 01 09  
Appropriate disposal/ package:  
Non-contaminated packages may be recycled  
Completely emptied packings can be recycled  
Contaminated packing must be completely emptied and can be re-used following proper cleaning.

### 14) TRANSPORT INFORMATION

Land Transport (ADR/RID) :

UN-N° : -  
Classification code : -  
Hazard label : none  
Official transport designation :  
Remark: No dangerous good in sense of this transport regulation

Inland waterway craft: (ADN/ADNR)

Hazard Label : None  
UN N°: -  
Classification code:  
Packing group:  
Hazard label: none  
Official transport designation:  
Remark: No dangerous good in sense of this transport regulation

Sea transport (IMDG)

IMDG-CODE-Class:  
UN - N°:  
Packing group:  
Proper Shipping Name:  
Marine pollutant:  
Remark: Np dangerous good in sense of this transport regulation

Air Transport (ICAO-TI/IATA-DGR):

Class or Division:  
UN/ID-N° /  
Packing group:  
Proper shipping name:  
Remark: No dangerous good in sense of this transport regulation.

### 15) REGULATORY INFORMATION

EU-Legislation:  
Chemical Safety Assessment:

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The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Regulation EC 1272/2008 modified by regulation EC 618/2012

Hazard symbols and hazard statements of dangerous substances and preparations:

No dangerous substance

Hazard components for labelling: geraniol 0.75%

Authorisations and/or restrictions on use: Biocidal active substance (Directive 98/8 EC)

Authorisations: According 98/8EC: Biocidal active substance in product -type 19 (Repellents).

Restrictions on use: none

Other regulations (EU): Directive 98/8 EC

## 16) OTHER INFORMATION

### In compliance with Directive 67/548/EEC and 1999/45/EC:

#### Risk phrases:

R38: Irritating to skin

R43: May cause sensitization by skin contact

R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

#### Safety phrases :

S2: Keep out of reach of children

### In compliance with EC 1272/2008:

H315: Causes skin irritation

H317: Causes skin allergy

H411: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

P102: Keep out of reach of children

Recommended restrictions on use: none

Further information: -

Data sources: Data rely on practical experience.