 <b>NATURAL PLANT PROTECTION</b>	<b>REFERENCE :</b> <b>Biomite USA en</b>	<b>UPDATING INDICE :</b> <b>02</b>	<b>DATE :</b> <b>20/03/2015</b>
	<b>BIOMITE</b> Material Safety Data Sheet according to Annex II of the European Regulation n°1907/2006 of R.E.A.C.H.		

### 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY\*

Product/substance name **BIOMITE**

Product / substance use **Insecticide**

Supplier **Natural Plant Protection SAS**  
**Arysta LifeScience group**  
**BP 80 Route d'Artix**  
**64150 Noguères - France**

Tel. : + 33 (0)5 59 84 10 45  
Fax. : + 33 (0)5 59 71 78 10

Contact : [fds@goemar.com](mailto:fds@goemar.com)  
Web Site : <http://www.goemar.com>

Emergency telephone number **Toxico vigilance** + 33 (0)2.99.19.19.19 (business hours).  
**Transport accident** + 33 (0)2.99.19.19.19 (business hours).  
**Treatment center for poisoning cases** + 33 (0)1.40.05.48.48 (PARIS)

Other emergency numbers

### 2 - HAZARDS IDENTIFICATION

Physical and chemical hazards

Health hazards **Irritating to eyes**  
**May cause sensitization by skin contact**  
**Toxic to aquatic organisms, may cause long term adverse effects in aquatic environment**

Environmental hazards **Dangerous for the environment**

Others hazards


### 3 - COMPOSITION/INFORMATIONS ON INGREDIENTS\*

Chemical information:

Chemical name	CAS Number	EINECS and EC numbers	Classification	Concentration (%)
Geraniol	106-24-1	203-225-4	Xi - R38 - R41 - R43	0.42
Citronellol	106-22-9	203-375-0	Xi - N - R38 - R43 - R51/53	0.42
Nerolidol	7212-44-4	230-597-5	N - R50/53	0.42
Farnesol	4602-84-0	225-004-1	Xi - R36/38 - R43	0.17

*For the complete text of R sentences, please refer to chapter 16.*

\* paragraph modified at last update

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	<b>BIOMITE</b> Material Safety Data Sheet according to Annex II of the European Regulation n°1907/2006 of R.E.A.C.H.		

#### **4 – FIRST AID**

In general	Remove the affected person from the danger zone to a well-ventilated room or to fresh air, and protect from chilling. Do not administer anything by oral route and do not try to make vomit, call a treatment center for poisoning cases or a doctor. Take the label where possible.
After Inhalation	Immediately remove to fresh air. Call a doctor immediately.
After eye contact	Rinse immediately and thoroughly with plenty of water during at least 10 to 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if pain or redness persists.
After skin contact	Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.
After Ingestion	Call a doctor immediately and show the label. Do not induce vomiting.
Medical instructions	Treat symptomatically


#### **5 – FIRE-FIGHTING MEASURES**

Extinguishing means	Water spray, foam, dry chemical powder.
Unsuitable extinguishing means	Water jet.
Special exposure hazards	By thermal decomposition, possibility of formation of toxic gases (Nitrogen oxide, carbon oxide,).
Particular protective measures	Intervention personnel should wear mask and individual respiratory equipment. Retain water or extinguishing media and eliminate safely.

#### **6 – ACCIDENTAL RELEASE MEASURES**

Personal protection	Wear protective adapted equipment and take back non protected people. Withdrawal combustion and ignition sources and block bringing in oxygen (ventilation).
Environmental protection	Avoid sewage, surface water, ground water and soil contamination.  Retain spilled liquids and collect them with sand or other absorbent inert material (sepiolite). Absorbent inert material stocks have to be sufficient to face reasonably predictable spillage. Keep sewers from potential spillage to minimize pollution hazards. Do not throw washing waters into sewers. Contact competent authorities when a situation cannot be controlled rapidly and efficiently.

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In the case of spillage into water, stop dispersion of the product with adequate barrier.

**Methods for cleaning up**

Collect contaminated products on the surface concerned, transfer to closed drums before sending in a specialized incineration treatment center.  
Wash the contaminated surface with water and collect washing waters for treatment.  
Cover the contaminated zone using absorbent materials such as sand or sepiolite.  
See section 8 for personal protection and section 13 for disposal considerations.

**Particular points**

**7 - HANDLING AND STORAGE**

**Handling**

Do not eat, drink or smoke when using.  
Wear appropriate protective clothes, adequate gloves (nitril), glasses or mask.  
Avoid all contact of skin, eyes or clothes with new or old product.  
Respect good hygienic body conditions and cleanliness of the working area.  
Wash hands abundantly after handling.

**Storage requirements**

Do not wash working clothes with household linen.  
Store in a well closed container, in a fresh and well ventilated place.  
Store under cover, in an appropriate room, away from heat and sources of fire, at temperature <35°C.  
Keep away from food, drink and animal feedingstuffs.  
Do not store in room at temperature below -5°C

**8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**General measures**

When using refer in priority to information written on the label.

**Exposure limits**

Not defined

**Control of professional exposure**

**Respiratory protection**

Preferably wear a mask covering all face with filter appropriate to organic vapor, powder or aerosol. A.P. Type filters.

**Hand protection**

**Eyes protection**

Preferably wear a mask, a face screen or protective glasses.


**Skin protection**

Wear appropriate protective clothes, covering all parts of the body.

**Control of environment exposure**

Respect European and National Regulations in term of environment

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## 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid Light brown
Odour	Pleasant odor of aromatic compound
pH	5-6
Boiling point / range	N.A.
Flash point	66 °C
Flammability	Not flammable
Explosives properties	Risks of explosion almost none in the recommended conditions of storage see point 7. Real risk in case of fire or accumulation of the emanations
Combustives properties	N.A .
Vapour pressure	Negligible
Relative density	NDA
Solubility	
- Water	Readily miscible in water
- Organic solvents	
Hydrosolubility	
n-octanol/water coefficient	
Viscosity	37 cSt
Vapour density	Not relevant
Evaporation rate	NDA
Other information	


## 10 - STABILITY AND REACTIVITY

Conditions to avoid	Avoid storage at temperature > 35°C in a confined place..
Materials to avoid	Avoid contact with strong oxidant and strong reducing agent.
Hazardous decomposition products	See point 5.

## 11 - TOXICOLOGICAL INFORMATION

Acute toxicity	
by ingestion (rat)	LD <sub>50</sub> : 5242 mg/kg (male ; 3573 mg/kg (female)
by skin contact (rabbit)	LD <sub>50</sub> : 5050 mg/kg (male and female)
by inhalation (rat)	LC <sub>50</sub> (4 h) > NDA
Skin irritation (rabbit)	Not irritant to the skin
Eye irritation (rabbit)	Moderately irritant to the eye
Skin sensitization (guinea-pig)	Very slightly sensitizing to the skin
Subchronic toxicity	NDA
Chronic toxicity	
Carcinogenicity	NDA
Teratology	NDA
Reproduction	NDA

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	<b>BIOMITE</b> Material Safety Data Sheet according to Annex II of the European Regulation n°1907/2006 of R.E.A.C.H.		

(development and fertility)

Mutagenicity effects                      NDA

Other

## **12 – ECOLOGICAL INFORMATION**

### Ecotoxicity

Toxicity for aquatic organism (acute and chronic)	Toxic to aquatic organisms EC <sub>50</sub> (48 h) daphnia = NA ECr <sub>50</sub> (72 h) algae = NA EC <sub>50</sub> (7 d) aquatic plant = NA
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Toxicity for birds Toxicity for bees	LD <sub>50</sub> bird = NA LD <sub>50</sub> oral > NA LD <sub>50</sub> contact = NA
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Toxicity for soil  
micro-organisms and  
macro-organisms

### Mobility

Persistence and degradability Potential of bioaccumulation Results of PBT evaluation	Readily biodegradable Supposed to be negligible
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Other harmful effects

## **13 - DISPOSAL CONSIDERATIONS**

### Product/packaging

Disposal of important amounts must be made by duly authorized specialists.  
Incineration should be made in authorized and specialized plant.  
Eliminate the product and its packaging with care and in a responsible way.  
Do not throw near ponds, rivers, ditches or into sewers.  
Wash contaminated surfaces with water and collect washing waters for treatment.  
Make sure that local Regulations are respected.


### Washing products

For more information, contact your usual salesman or the Word-wide Bank to 1-202-458-2841.  
Do not throw into sewer. Do not contaminate natural waters.  
Clean up application materials on the treated area and eliminate waters by spraying on one area.

## **14 - TRANSPORT INFORMATION**

**NOT REGULATED FOR TRANSPORT**

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## **15 – REGULATORY INFORMATION**

**Labelling according to 67/548/CE, 2003/82/CE and 99/45/CE modified Directives and national regulation**

**Labelling according to WHO guidelines**

Product unlikely to present a hazard in normal use

N: Dangerous for the environment

**Risk phrase(s)**

R36 : Irritating to eyes

R43 : May cause sensitization by skin contact

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

**Safety phrase(s)**

S24/25 : Avoid contact with skin and eyes

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S29 : No not empty into drains

S37 : Wear suitable gloves

S46 : If swallowed, seek medical advice immediately and show this container or label

S57 : Use appropriate container to avoid environment contamination

### **Other prescriptions**

To avoid risks to man and the environment, comply with the instructions for use. (Directive 1999/45/EC, Article 10, n° 12)

Storage classification (ICPE): 1173

## **16 - OTHER INFORMATION\***

**R phrases text of dangerous substances (written in chapter 3):**

R38: Irritating to skin

R41: Risk of serious damage to eyes

R43: May cause sensitization by skin contact

R36/38: Irritating to eyes and skin

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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


This MSDS completes technical use sheets but does not replace them. Information herein is based on our present knowledge concerning the product, at the edition date. It is honestly given.

The attention of users is drawn to potential risks taken when the product is used for other uses than those for which it is made.

The user has to know and comply with all regulations concerning its activity.

It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

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	<b>BIOMITE</b> Material Safety Data Sheet according to Annex II of the European Regulation n°1907/2006 of R.E.A.C.H.		

The aim of all the regulations mentioned is to help the person concerned to comply with the rules which are his own responsibility. This listing cannot be considered as exhaustive. The person concerned has to make sure that he has no other obligations due to texts specific to particular applications.