

# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## Anti Maulwurf Tabs BIO

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Anti Maulwurf Tabs BIO

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture

Product-type 19: Repellents and attractants

##### Uses advised against

No information available.

#### 1.3. Details of the supplier of the safety data sheet

Company name:	GreenCare Deutschland GmbH	
Street:	Ostergrube 11	
Place:	D-30559 Hannover	
Telephone:	+49 (511) 60 087 710	Telefax: +49 (511) 60 087 711
e-mail:	service@greencare.de	
Internet:	www.greencare.de	
Responsible Department:	service@greencare.de	

#### 1.4. Emergency telephone number:

+49 (511) 60 087 710 (Mo-Fr, 08:00 - 17:00)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No. 1272/2008

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1B

Hazard Statements:

Causes serious eye irritation.

May cause an allergic skin reaction.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

(E)-anethole

LAVANDIN OIL GROSSO

2-Isopropyl-5-methyl cyclohexanone

2-Isopropyl-5-methyl cyclohexanone

(R)-p-mentha-1,8-diene, d-limonene

Signal word: Warning

Pictograms:



##### Hazard statements

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

##### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of waste according to applicable legislation.

### Special labelling of certain mixtures

Read attached instructions before use.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
497-19-8	sodium carbonate			55 - < 60 %
	207-838-8	011-005-00-2	01-2119485498-19	
	Eye Irrit. 2; H319			
4180-23-8	(E)-anethole			1 - < 5 %
	224-052-0		01-2119979097-22	
	Skin Sens. 1B; H317			
8022-15-9	LAVANDIN OIL GROSSO			< 1 %
	617-009-6			
	Skin Irrit. 2, Skin Sens. 1; H315 H317			
14073-97-3	2-Isopropyl-5-methyl cyclohexanone			< 1 %
	237-926-1		01-2119983789-09	
	Skin Irrit. 2, Skin Sens. 1B; H315 H317			
10458-14-7	2-Isopropyl-5-methyl cyclohexanone			< 1 %
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1; H226 H315 H317			
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene			< 1 %
	227-813-5	601-029-00-7	01-2119529223-47	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H226 H315 H317 H400 H410			

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

IF INHALED: Call a doctor if you feel unwell. Provide fresh air.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

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Change contaminated, saturated clothing.

In case of skin irritation, consult a physician.

### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

Cough, Dyspnoea, Dizziness, Vomiting, Headache,

### 4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Dry extinguishing powder, alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Water spray jet

#### Unsuitable extinguishing media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

### 5.3. Advice for firefighters

Special protective equipment for firefighters Protective clothing.

In case of fire: Wear self-contained breathing apparatus.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Dispose of waste according to applicable legislation.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

Provide adequate ventilation.

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

See protective measures under point 7 and 8.

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Wear personal protection equipment (refer to section 8).

Keep container tightly closed.

Do not breathe gas/fumes/vapour/spray.

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Avoid contact with skin, eyes and clothes.

### Advice on protection against fire and explosion

No special fire protection measures are necessary.

### Further information on handling

Use only in well-ventilated areas.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Keep/Store only in original container.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

#### Further information on storage conditions

Keep away from: Frost, Heat, Humidity

### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
9004-34-6	Cellulose (pure), respirable	-	4		TWA (8 h)	WEL
14807-96-6	Talc respirable dust	-	1		TWA (8 h)	WEL

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### DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
497-19-8	sodium carbonate			
Worker DNEL, long-term		inhalation	local	10 mg/m³
Consumer DNEL, long-term		inhalation	local	10 mg/m³
14807-96-6	Talc			
Worker DNEL, long-term		inhalation	systemic	2,16 mg/m³
Worker DNEL, acute		inhalation	systemic	2,16 mg/m³
Worker DNEL, long-term		inhalation	local	3,6 mg/m³
Worker DNEL, acute		inhalation	local	3,6 mg/m³
Worker DNEL, long-term		dermal	systemic	43,2 mg/kg bw/day
Worker DNEL, long-term		dermal	local	4,54 mg/cm²
Consumer DNEL, long-term		inhalation	systemic	1,08 mg/m³
Consumer DNEL, acute		inhalation	systemic	1,08 mg/m³
Consumer DNEL, long-term		inhalation	local	1,8 mg/m³
Consumer DNEL, acute		inhalation	local	1,8 mg/m³
Consumer DNEL, long-term		dermal	systemic	21,6 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	2,27 mg/cm²
Consumer DNEL, long-term		oral	systemic	160 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	160 mg/kg bw/day
4180-23-8	(E)-anethole			
Worker DNEL, long-term		inhalation	systemic	26,45 mg/m³
Worker DNEL, long-term		dermal	systemic	7,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	6,5 mg/m³
Consumer DNEL, long-term		dermal	systemic	3,75 mg/kg bw/day
14073-97-3	2-Isopropyl-5-methyl cyclohexanone			
Worker DNEL, long-term		inhalation	systemic	26,1 mg/m³
Worker DNEL, long-term		dermal	systemic	7,4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	6,4 mg/m³
Consumer DNEL, long-term		dermal	systemic	3,7 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	3,7 mg/kg bw/day
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene			
Worker DNEL, long-term		inhalation	systemic	66,7 mg/m³
Worker DNEL, long-term		dermal	systemic	9,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	16,6 mg/m³
Consumer DNEL, long-term		dermal	systemic	4,8 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4,8 mg/kg bw/day

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### PNEC values

CAS No	Substance	
Environmental compartment		Value
14807-96-6	Talc	
Freshwater		597,97 mg/l
Marine water		141,26 mg/l
Freshwater sediment		31,33 mg/kg
Marine sediment		3,13 mg/kg
4180-23-8	(E)-anethole	
Freshwater		0,007 mg/l
14073-97-3	2-Isopropyl-5-methyl cyclohexanone	
Freshwater		0,031 mg/l
Marine water		0,003 mg/l
Freshwater sediment		0,558 mg/kg
Marine sediment		0,056 mg/kg
Secondary poisoning		246,67 mg/kg
Soil		0,093 mg/kg
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	
Freshwater		0,014 mg/l
Marine water		0,0014 mg/l
Freshwater sediment		3,85 mg/kg
Marine sediment		0,385 mg/kg
Secondary poisoning		133 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,8 mg/l
Soil		0,763 mg/kg

### 8.2. Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

#### Protective and hygiene measures

- Only wear fitting, comfortable and clean protective clothing.
- Avoid contact with skin, eyes and clothes.
- Wash hands before breaks and after work.
- When using do not eat, drink, smoke, sniff.
- Street clothing should be stored separately from work clothing.
- Wash contaminated clothing before reuse.
- Contaminated work clothing should not be allowed out of the workplace.

#### Eye/face protection

Eye glasses with side protection,  
goggles

#### Hand protection

- Suitable material:  
NBR (Nitrile rubber) DIN EN 374
- Thickness of the glove material:  $\geq 0,11$  mm
- Breakthrough time (maximum wearing time):  $> 480$  min
- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is

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recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Filtering device (full mask or mouthpiece) with filter: A / P2

**Environmental exposure controls**

No information available.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	solid	
Colour:	whitish	
Odour:	characteristic	
pH-Value:		not applicable

**Changes in the physical state**

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
:	No information available.
Flash point:	>100 °C
Sustaining combustion:	No data available

**Flammability**

Solid:	not determined
Gas:	not determined

**Explosive properties**

not explosive.

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not determined

**Auto-ignition temperature**

Solid:	not determined
Gas:	not determined

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapour pressure:	not determined
Density:	not determined
Water solubility:	miscible

**Solubility in other solvents**

No information available.

Partition coefficient:	No information available.
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Viscosity / dynamic:

No information available.

Vapour density:

No information available.

Evaporation rate:

No information available.

### 9.2. Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No information available.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
497-19-8	sodium carbonate				
	oral	LD50 2800 mg/kg	Rat	Groups of 5 male and	
	dermal	LD50 > 2000 mg/kg	Rabbit	EPA 16 CFR 1500.40	
4180-23-8	(E)-anethole				
	dermal	LD50 > 4900 mg/kg	Rabbit	Study report (1971)	EU Method B.3
14073-97-3	2-Isopropyl-5-methyl cyclohexanone				
	oral	LD50 2602 mg/kg	Rat	Study report (1974)	The acute oral toxic
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2010)	OECD Guideline 423
	dermal	LD50 > 5000 mg/kg		REACH Registration Dossier	

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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### Sensitising effects

May cause an allergic skin reaction. ((E)-anethole; LAVANDIN OIL GROSSO; 2-Isopropyl-5-methyl cyclohexanone; 2-Isopropyl-5-methyl cyclohexanone; (R)-p-mentha-1,8-diene, d-limonene)

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
4180-23-8	(E)-anethole					
	Acute fish toxicity	LC50 ca. 7 mg/l	96 h	Danio rerio	Study report (1992)	EU Method C.1
	Acute crustacea toxicity	EC50 ca. 6,82 mg/l	48 h	Daphnia magna	Study report (1980)	other: ASTM. 1989. S
	Acute bacteria toxicity	(ca. 97,2 mg/l)	3 h	Activated sludge	Study report (1992)	OECD Guideline 209
14073-97-3	2-Isopropyl-5-methyl cyclohexanone					
	Acute fish toxicity	LC50 > 28 mg/l	96 h	Brachydanio rerio	Study report (2012)	OECD Guideline 203
	Acute algae toxicity	ErC50 58 mg/l	72 h	Pseudokirchnerella subcapitata	Study report (2012)	OECD Guideline 201
	Acute crustacea toxicity	EC50 30,6 mg/l	48 h	Daphnia magna	Study report (2000)	EU Method C.2
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene					
	Acute fish toxicity	LC50 0,72 mg/l	96 h	Pimephales promelas	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 0,32 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 0,307 mg/l	48 h	Daphnia magna	Study report (2013)	OECD Guideline 202
	Fish toxicity	NOEC 0,37 mg/l	8 d	Pimephales promelas	REACH Registration Dossier	OECD Guideline 212
	Crustacea toxicity	NOEC 0,08 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	(209 mg/l)	3 h		REACH Registration Dossier	

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

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No information available.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
4180-23-8	(E)-anethole	ca. 3,388
14073-97-3	2-Isopropyl-5-methyl cyclohexanone	3,05
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	4,38

### BCF

CAS No	Chemical name	BCF	Species	Source
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	864,8	no data	REACH Registration D

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation.

#### Contaminated packaging

Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number:

No dangerous good in sense of this transport regulation.

#### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

#### 14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

#### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)

#### 14.1. UN number:

No dangerous good in sense of this transport regulation.

#### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

#### 14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

#### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

#### 14.1. UN number:

No dangerous good in sense of this transport regulation.

#### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

#### 14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

#### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/IATA-DGR)

#### 14.1. UN number:

No dangerous good in sense of this transport regulation.

#### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

#### 14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

#### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

### 14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

No information available.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No information available.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
Water contaminating class (D): 1 - slightly water contaminating  
Biocide registry number: N-75087

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

sodium carbonate

Talc

(E)-anethole

2-Isopropyl-5-methyl cyclohexanone

(R)-p-mentha-1,8-diene, d-limonene

## SECTION 16: Other information

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1B; H317	Calculation method

### Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*