

Trade name: GAT Lambda

Status: 27.04.2011

Product no.: 001046

Version: 1.0.0 / GB

Date of printing: 01.06.2015

**1.) Identification of the substance/mixture and of the company/undertaking****Trade name****BOMBEX Lambda 10 CS Public Health****Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

biocide

Insecticides, acaricides and products to control other arthropods.

Products used for the control of arthropods (e.g. insects, arachnids and crustaceans).

**Details of the supplier of the safety data sheet****Address**

GAT Microencapsulation South Africa ( Pty ) Ltd.

P.O. Box 3108, Lyttleton South.

0176 Centurion

Telephone no. + 27 -012-656-0259 ( Mobile: 082-703-0086 )

Fax no. + 27 -086-587-0377

**POISON CENTRE: +27 ( 0 ) 21 689 5227****International Emergency telephone**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

**International Advice on Safety Data Sheet**

msds@microencapsulation.at

**2.) Hazards identification****Classification of the substance or mixture****Classification in accordance with Directive 67/548/EEC or 1999/45/EC**

Xn; R20/22

N; R50/53

**Classification information**

Classification and labelling on the basis of results obtained from toxicological examinations.

**Label elements****Labelling according to Directive 1999/45/CE****Hazard symbols**

Harmful

Dangerous for the  
environment**R phrases**

20/22

50/53

Harmful by inhalation and if swallowed.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

23,3

45

Do not breathe vapour.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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Avoid release to the environment. Refer to special instructions / Safety data sheets.

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### 3.) Composition / information on ingredients

#### Chemical characterization

capsule suspension formulation of lambda-cyhalothrin

#### Hazardous ingredients

##### lambda-cyhalothrin

EC no.	415-130-7	Index no.	607-252-00-6	CAS no.	91465-08-6
Concentration			9,7 %-b.w.		
Classification	Xn; R21	T; R25	T+; R26	N; R50/53	
Hazard symbols	T+; N		R phrases	21-25-26-50/53	

##### SOLVENT NAPHTHA (PETROLEUM)

EC no.	265-199-0	Index no.	649-356-00-4	CAS no.	64742-95-6
Concentration	> 5	< 10	%-b.w.		
Classification	R10 Xn; R65	Xi; R37	N; R51/53	R67 R66	
Hazard symbols	Xn; N		R phrases	10-37-51/53-65-66-67	

##### propane-1,2-diol

EC no.	200-338-0	Index no.	-	CAS no.	57-55-6
Concentration	> 10	< 30	%-b.w.		
Classification	-				
Hazard symbols	-		R phrases	-	

#### Hazardous components in complex substances:

##### 1,2,4-trimethylbenzene

EC no.	202-436-9	Index no.	601-043-00-3	CAS no.	95-63-6
Concentration	> 1	< 5	%-b.w.		
Classification	R10 Xn; R20	Xi; R36/37/38	N; R51/53		
Hazard symbols	Xn; N		R phrases	10-20-36/37/38-51/53	

##### Mesitylene

EC no.	203-604-4	Index no.	601-025-00-5	CAS no.	108-67-8
Concentration	> 0,5	< 1	%-b.w.		
Classification	R10 Xi; R37	N; R51/53			
Hazard symbols	Xi; N		R phrases	10-37-51/53	

##### cumene

EC no.	202-704-5	Index no.	601-024-00-X	CAS no.	98-82-8
Concentration	< 0,5		%-b.w.		
Classification	R10-Xn; R65-Xi; R37-N; R51/53				
Hazard symbols	Xn, N		R phrases	10-37-51/53-65	

### 4.) First aid measures

#### General information

In case of accident or if you feel unwell, seek medical advice immediately. Change contaminated, saturated clothing.

#### After inhalation

Remove affected person from the immediate area. If unconscious place in recovery position and seek medical advice. Ensure supply of fresh air.

#### After skin contact

Wash off immediately with soap and water.

#### After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice. Seek medical assistance.

#### After ingestion

Do not induce vomiting. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

### 5.) Fire-fighting measures

#### Suitable extinguishing media

Water mist; Water spray jet; Carbon dioxide; Dry chemicals; Foam

#### Extinguishing media that must not be used for safety reasons

Strong water jet

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**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.  
Combustion products of this material have to be classed invariably as respiratory poison.

**Special protective equipment for fire-fighters**

Use self-contained breathing apparatus.

**6.) Accidental release measures****Personal precautions**

Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. In case of entry into waterways, soil or drains, inform the responsible authorities.

**Methods for cleaning up/taking up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see chapter 13).

**7.) Handling and storage****Handling****Advice on safe handling**

Avoid contact with skin and eyes. Keep container tightly closed. If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Do not eat or drink during work - no smoking.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - refrain from smoking.

**Storage****Requirements for storage rooms and vessels**

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep only in the original container.

**Advice on storage assembly**

Do not store together with: Oxidizing agents

**Further information on storage conditions**

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

**8.) Exposure controls / personal protection****Exposure limit values****propane-1,2-diol**

CAS no. 57-55-6  
EC no. 200-338-0

**List of approved workplace exposure limits (WELs) / EH40**

Propane-1,2-diol  
total vapour and particulates  
TWA 474 mg/m<sup>3</sup> 150 ml/m<sup>3</sup>

**List of approved workplace exposure limits (WELs) / EH40**

Propane-1,2-diol  
particulate  
STEL 10 ml/m<sup>3</sup>

**SOLVENT NAPHTHA (PETROLEUM)**

CAS no. 64742-95-6  
EC no. 265-199-0

**List of approved workplace exposure limits (WELs) / EH40**

TWA 1200 mg/m<sup>3</sup>

**1,2,4-trimethylbenzene**

CAS no. 95-63-6  
EC no. 202-436-9

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**2000/39/EWG**

1,2,4-Trimethylbenzene

TWA 100 mg/m<sup>3</sup> 20 ml/m<sup>3</sup>**Mesitylene**

CAS no. 108-67-8

EC no. 203-604-4

**2000/39/EWG**

Mesitylene (Trimethylbenzenes)

TWA 100 mg/m<sup>3</sup> 20 ml/m<sup>3</sup>**cumene**

CAS no. 98-82-8

EC no. 202-704-5

**2000/39/EWG**

Cumene

TWA 100 mg/m<sup>3</sup> 20 ml/m<sup>3</sup>STEL 250 mg/m<sup>3</sup> 50 ml/m<sup>3</sup>

Skin resorption / sensibilisation Skin

**List of approved workplace exposure limits (WELs) / EH40**

Cumene

TWA 125 mg/m<sup>3</sup> 25 ml/m<sup>3</sup>STEL 375 mg/m<sup>3</sup> 50 ml/m<sup>3</sup>

Skin resorption / sensibilisation Sk

**Exposure controls****Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. Filter A or environment-independent breathing apparatus.

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

**Eye protection**

Tightly fitting safety glasses (EN 166).

**Skin protection**

Chemical-resistant work clothes.

**General protective and hygiene measures**

Do not eat or drink during work - no smoking. After worktime and during work intervals the affected skin areas must be thoroughly cleaned. Keep away from foodstuffs and beverages. Do not inhale vapours.

**9.) Physical and chemical properties****General information**

Form	liquid
Colour	white
Odour	aromatic

**Important health, safety and environmental information****Changes in physical state**

Remarks no data available

**Flash point**

Value appr. 85 °C

**Vapour pressure**

Remarks no data available

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**Density**

Value		1,05	g/cm <sup>3</sup>
Reference temperature	20	°C	

**Viscosity**

Type	dynamic		
Value	appr.	150	mPa*s
Reference temperature	20	°C	

**Solubility in water**

Remarks	miscible
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**pH value**

Value	appr.	6,4
Reference temperature	20	°C

**10.) Stability and reactivity****Conditions to avoid**

Stable under recommended storage and handling conditions (See section 7).

**Materials to avoid**

Product reacts with: Oxidizing agents

**Hazardous decomposition products**

No hazardous decomposition products known.

**11.) Toxicological information****Acute toxicity****Acute oral toxicity**

LD50		550	mg/kg
Species	rat (female)		
Reference substance	Product		

**Acute dermal toxicity**

LD50	>	5000	mg/kg
Species	rat		
Reference substance	Product		

**Acute inhalational toxicity**

LC50	>	2,04	mg/l
Reference substance	Product		
Species	rat		

**Irritant/corrosive effects****Irritant effect on skin**

Species	rabbit
Reference substance	Product
Evaluation	slightly irritant

**Irritant effect on eyes**

Species	rabbit
Reference substance	Product
Evaluation	slightly irritant

**Sensitisation**

Species	guinea pig
Reference substance	Product
Evaluation	sensitizing

**Effects after repeated or prolonged exposition (subacute, subchronic, chronic)**

Remarks	No data available.
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**Experience in practice**

Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract. May cause sensitization by skin contact such as tingling/numbness on exposed areas (paresthesia). These effect are transient, lasting up to 24 h."

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**Other information**

The product was classified on the basis of the calculation procedure of the preparation directive (1999/45/EEC). Analogous to product with a similar composition.

**12.) Ecological information****Ecotoxicity****Fish toxicity**

LC50		0,36	µg/l
Species	Rainbow trout		
Duration of exposure	96	h	
Source	Pesticide Manual		
Reference substance	Lambda-Cyhalothrin		

**Daphnia toxicity**

EC50		0,36	µg/l
Species	Daphnia magna		
Duration of exposure	48	h	
Source	Pesticide Manual		
Reference substance	Lambda-Cyhalothrin		

**Algae toxicity**

ErC50	>	1000	µg/l
Species	Selenastrum capricornutum		
Duration of exposure	96	h	
Source	Pesticide Manual		
Reference substance	Lambda-Cyhalothrin		

**Toxicity / other aquatic organisms**

Remarks Very toxic to aquatic organisms.

**Other information**

Product is not allowed to discharge into aquatic environment, drains or sewage treatment plants. Ecological data are not available.

**13.) Disposal considerations****Product**

Waste code 020108 Agrochemical waste containing dangerous substances  
The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

**Packaging**

Completely discharge containers. Do not reuse product container.

**14.) Transport information****Transport ADR/RID/ADN**

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	3082
Technical name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Danger releasing substance	lambda-cyhalothrin
Tunnel restriction code	E
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**Transport IMDG**

Class	9
Packing group	III
UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Trade name: GAT Lambda

Status: 27.04.2011

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Danger releasing substance	lambda-cyhalothrin
EmS	F-A+S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

**Transport ICAO/IATA**

Class	9
Packing group	III
UN number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Danger releasing substance	lambda-cyhalothrin
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**15.) Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Directive 98/8/EC concerning the placing of biocidal products on the market**

BAuA registry number: N-39962; lambda-cyhalothrin (9,7 g/l); Use biocides safely.  
Always read the label and product information before use.

**Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances**

Remarks Annex I, part 2, category 9 a

**National regulations****Other national regulations**

Reg.-No. GB: 9243

**16.) Other information****Sources of key data used to compile the data sheet:**

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.  
Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.  
EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC  
National Threshold Limit Values of the corresponding countries as amended in each case.  
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.  
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

**Full text of R-phrases referred to under section 3**

R10	Flammable.
R20	Harmful by inhalation.
R21	Harmful in contact with skin.
R25	Toxic if swallowed.
R26	Very toxic by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
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.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

**Department issuing safety data sheet**

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 b, D-21107 Hamburg

Tel.: +49 40 / 41 92 13 00 Fax: +49 40 / 41 92 13 57 e-mail: umco@umco.de

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.