

**GIN TONIC LIME**

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

**SECTION 1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Sales No. : 12622-401-1  
GIN TONIC LIME

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

Intended Use Fragrances : Perfume compound

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

Company : bekro chemie GmbH  
Industriestr. 104  
66802 Überherrn  
Germany

Telephone : +49 6836 9198 0  
Telefax : +49 6836 9198 10  
E-mail address : info@bekro.de  
Responsible/issuing person

**1.4 Emergency telephone number**

+49 6836 9198 0  
(office hours only)

**SECTION 2. Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Administrative information:  
Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23  
Sales & Distribution Information: HA01/FR/DE10/01  
Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

Signal word : Warning

Hazard statements : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

- 3,7-dimethyl-1,6-octadien-3-ol (= 78-70-6  
Linalool)
- turpentine, oil 8006-64-2
- 2-acetyl-1,2,3,4,5,6,7,8-octahydro- 54464-57-2  
2,3,8,8-tetra-methylnaphthalene  
(main isomer)
- (R)-p-mentha-1,8-diene 5989-27-5
- 1-methyl-4-isopropylidene-1- 586-62-9  
cyclohexene (= terpinolene)
- citral 5392-40-5
- (2E)-3,7-dimethyl-2,6-octadien-1-ol 106-24-1  
(= geraniol)
- 2-oxabicyclo(2.2.2)octane, 1,3,3- 470-82-6  
trimethyl- (= Eucalyptol)
- 2,6,6-trimethyl-Bicyclo[3.1.1]hept-2- 80-56-8  
ene (= alpha-pinene)
- 3,7-dimethyl-2,6-octadien-1-ol (= 106-25-2  
nerol)
- (E)-2-(3,5-dimethylhex-3-en-2-yloxy)- 676532-44-8  
2-  
methylpropylcyclopropanecarboxylat  
e
- Bicyclo[3.1.1]heptane, 6,6-dimethyl- 127-91-3  
2-methylene- (= Beta-pinene)

Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

- 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)- 57378-68-4  
2-buten-1-one

### 2.3 Other hazards

Hazards not Otherwise : None  
Classified.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3. Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [Percent by weight]
3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate)	115-95-7 204-116-4 01-2119454789-19	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 5 - < 10
3,7-dimethyl-1,6-octadien-3-ol (= Linalool)	78-70-6 201-134-4 01-2119474016-42	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 5 - < 10
diethyl malonate	105-53-3 203-305-9 01-2119886972-18	Eye Irrit. 2; H319	>= 1 - < 5
turpentine, oil	8006-64-2 232-350-7 01-2119553060-53	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 5

#### Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**GIN TONIC LIME**

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphthalene (main isomer)	54464-57-2 259-174-3 01-2119489989-04	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 5
2,6-dimethyl-7-octen-2-ol	18479-58-8 242-362-4 01-2119457274-37	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 5
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5 01-2119529223-47	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
2-(4-methylcyclohex-3-en-1-yl)propan-2-ol (= Terpineol)	8000-41-7 232-268-1 01-2119553062-49	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 5
1-methyl-4-isopropylidene-1-cyclohexene (= terpinolene)	586-62-9 209-578-0 01-2119982324-34	Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
citral	5392-40-5 226-394-6 01-2119462829-23	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
(2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol)	106-24-1 203-377-1 01-2119552430-49	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 0,1 - < 1
2-oxabicyclo(2.2.2)octane, 1,3,3-trimethyl- (= Eucalyptol)	470-82-6 207-431-5 01-2119967772-24	Flam. Liq. 3; H226 Skin Sens. 1B; H317	>= 0,1 - < 1

## Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales &amp; Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**GIN TONIC LIME**

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene)	80-56-8 201-291-9 01-2119519223-49	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
3,7-dimethyl-2,6-octadien-1-ol (= nerol)	106-25-2 203-378-7 01-2119560621-44	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317	>= 0,1 - < 1
(E)-2-(3,5-dimethylhex-3-en-2-yloxy)-2-methylpropylcyclopropanecarboxylate	676532-44-8 700-118-9 01-2119407467-38-0000	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0,1 - < 0,25
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (= Beta-pinene)	127-91-3 204-872-5 01-2119519230-54	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
1,4-methanoazulene, decahydro-4,8,8-trimethyl-9-methylene-, (1S-(1alpha,3abeta,4alpha,8abeta))-	475-20-7 207-491-2	Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,02 - < 0,025
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	57378-68-4 260-709-8 01-2119535122-53	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,0025 - < 0,02

For the full text of the H-Statements mentioned in this Section, see Section 16.

## Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales &amp; Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

### SECTION 4. First aid measures

#### 4.1 Description of first aid measures

- |                         |   |   |
|-------------------------|---|---|
| General advice          | : | Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.  |
| If inhaled              | : | If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.   |
| In case of skin contact | : | If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.  |
| In case of eye contact  | : | Remove contact lenses.<br>Immediately flush eyes for at least 15 minutes. Get medical attention.  |
| If swallowed            | : | Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician. |

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

- |          |   |                   |
|----------|---|-------------------|
| Symptoms | : | no data available |
| Risks    | : | no data available |

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

- |           |   |                   |
|-----------|---|-------------------|
| Treatment | : | no data available |
|-----------|---|-------------------|

### SECTION 5. Firefighting measures

#### 5.1 Extinguishing media

- |                              |   |  |
|------------------------------|---|--|
| Suitable extinguishing media | : | Dry chemical<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Water spray |
|------------------------------|---|--|

- |                                |   |                       |
|--------------------------------|---|-----------------------|
| Unsuitable extinguishing media | : | High volume water jet |
|--------------------------------|---|-----------------------|

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

##### Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6. Accidental release measures

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

Personal precautions : no data available

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Not applicable

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

#### Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

Temperature class : no data available  
Fire-fighting class : no data available  
Dust explosion class : no data available

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Ambient / 10-30°C (50-85°F)  
Dry, well ventilated, preferably full, hermetically sealed  
Advice on common storage : Protect against light.  
German storage class : no data available  
Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : no data available

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
turpentine, oil	8006-64-2	NDS	112 mg/m3	2014-06-23	PL OEL
		NDSch	300 mg/m3	2014-06-23	PL OEL
citral	5392-40-5	NDS	27 mg/m3	2014-06-23	PL OEL
		NDSch	54 mg/m3	2014-06-23	PL OEL

### 8.2 Exposure controls

Administrative information:  
Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23  
Sales & Distribution Information: HA01/FR/DE10/01  
Shipping Order Information: 15 923 262/8 128 602



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

### Personal protective equipment

- Respiratory protection** : Use only in well-ventilated areas.  
In case a risk analysis proved the cartridge respirator as acceptable, use type:  
ABEK-P3 (EN 14387) respirator cartridges as a backup to engineering controls.  
In absence of engineering controls, use self-contained breathing apparatus or full face supplied air respirators.  
Use respirators and components tested and approved under appropriate government standards such as CEN (EU).
- Hand protection** : Use gloves when handling substance in open systems.  
Inspect gloves prior to use. Train operators for proper use.  
If only incidental exposure is expected: (work without direct contact to substance) use gloves tested according EN 16523-1 breakthrough times at least 10 minutes, tested for chemicals indicated in chapter 3 of this SDS. Change gloves frequently.  
If direct skin contact is expected: use gloves tested according to EN 16523-1, tested for chemicals indicated in chapter 3 of this SDS. Permeation time must exceed contact time.
- Eye protection** : Use safety glasses and faceshield tested according to EN 166.
- Skin and body protection** : Wear working clothes covering arms and legs.  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Use apron or complete chemical suit if exposure is expected.
- Hygiene measures** : Do not eat, drink or smoke during work.  
Wash and dry hands after finished working.
- Protective measures** : Exposure assessment: Exposure is dependent on the product being handled, the potential for chemical release, and any resulting airborne concentrations or dermal contact. Since product handling and release scenarios vary, and no two workplaces are exactly alike, it is recommended that the potential for exposure be assessed prior to the product's use or introduction. Exposure assessments should be performed by an occupational hygienist, industrial hygienist, or other qualified occupational or environmental health professional. An exposure assessment should be conducted to determine the efficacy of any ventilation and the need for additional respiratory protection.  
PPE is always the last resort to avoid exposure. In any case technical and organisational measures have to be explored and used prior to the selection of PPE. The PPE selection is

#### Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

for operators trained to work with chemicals according to good industrial hygiene and safety practice. Operators have to be trained and used to PPE handling.

### Environmental exposure controls

General advice : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Form	: liquid
Colour	: colorless to Very slightly yellow
Taste	: not determined
Odour	: Citrus-like, Herbaceous, woody
Odour Threshold	: Not applicable
Flash point	: 74 °C Method: Grabner miniflash closed cup
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability (solid, gas)	: Not applicable
Oxidizing properties	: no data available
Auto-ignition temperature	: not determined
Decomposition temperature	: no data available
pH	: not determined
Melting point	: not determined
Boiling point	: not determined
Vapour pressure	: 0,3451 hPa at 20 °C Calculated (99,9 %)
Density	: 878,41 kg/m3 at 20 °C
Bulk density	: Not applicable
Water solubility	: not determined
Solubility/qualitative	: practically insoluble
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, kinematic	: no data available
Relative vapour density	: no data available
Evaporation rate	: no data available
Explosive properties	: no data available

### 9.2 Other information

Not applicable

#### Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

### SECTION 10. Stability and reactivity

#### 10.1 Reactivity

none

#### 10.2 Chemical stability

The product is chemically stable.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

#### 10.4 Conditions to avoid

Conditions to avoid : no data available

#### 10.5 Incompatible materials

Materials to avoid : no data available

#### 10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

Thermal decomposition : no data available

### SECTION 11. Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

**Acute oral toxicity** : Acute toxicity estimate  
Dose: > 2 000 mg/kg  
Method: Calculation method

##### Acute oral toxicity

3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate) : LD50: 13 934 mg/kg Species: Rat

3,7-dimethyl-1,6-octadien-3-ol (= Linalool) : LD50: 2 790 mg/kg Species: Rat

diethyl malonate : LD50: 6 400 mg/kg Species: Mouse

2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene (main isomer) : LD50: > 5 000 mg/kg Species: Rat

#### Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

2,6-dimethyl-7-octen-2-ol	: LD50: 3 600 mg/kg	Species: Rat
(R)-p-mentha-1,8-diene	: LD50: 5 600 mg/kg	Species: Mouse
2-(4-methylcyclohex-3-en-1-yl)propan-2-ol (= Terpineol)	: LD50: 4 000 mg/kg	Species: Rat
1-methyl-4-isopropylidene-1-cyclohexene (= terpinolene)	: LD50: 4 390 mg/kg	Species: Rat
(2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol)	: LD50: 3 600 mg/kg	Species: Rat
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene)	: LD50: 3 700 mg/kg	Species: Rat
3,7-dimethyl-2,6-octadien-1-ol (= nerol)	: LD50: 4 500 mg/kg	Species: Rat
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	: LD50: 1 821 mg/kg	Species: Mouse
<b>Acute inhalation toxicity</b>	: Acute toxicity estimate Exposure time: 4 h Dose: > 20,00 mg/l Method: Calculation method	
<b>Acute dermal toxicity</b>	: Acute toxicity estimate Dose: > 2 000 mg/kg Method: Calculation method	
<b>Acute dermal toxicity</b>		
3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate)	: LD50: > 5 000 mg/kg	Species: Rabbit
2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene (main isomer)	: LD50: > 5 000 mg/kg	Species: Rabbit
(R)-p-mentha-1,8-diene	: LD50: > 5 000 mg/kg	Species: Rabbit
1-methyl-4-isopropylidene-1-cyclohexene (= terpinolene)	: LD50: > 5 000 mg/kg	Species: Rabbit

### Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

citral : LD50: 2 250 mg/kg Species: Rabbit

(2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol) : LD50: > 5 000 mg/kg Species: Rabbit

1,4-methanoazulene, decahydro-4,8,8-trimethyl-9-methylene-, (1S-(1alpha,3abeta,4alpha,8abeta))- : LD50: > 5 000 mg/kg Species: Rabbit

**Acute toxicity (other routes of administration)** : No data is available on the product itself.

### Skin corrosion/irritation

Skin irritation : May cause skin irritation and/or dermatitis.

### Skin irritation

(E)-2-(3,5-dimethylhex-3-en-2-yloxy)-2-methylpropylcyclopropanecarboxylate : Species: Rabbit  
No skin irritation  
Method: OECD Test Guideline 404  
Species: In vitro  
No skin irritation

### Serious eye damage/eye irritation

Eye irritation : Vapours may cause irritation to the eyes, respiratory system and the skin.

### Eye irritation

(E)-2-(3,5-dimethylhex-3-en-2-yloxy)-2-methylpropylcyclopropanecarboxylate : Species: Rabbit  
No eye irritation  
Method: OECD Test Guideline 405  
Species: In vitro  
No eye irritation

### Respiratory or skin sensitisation

Sensitisation : No data is available on the product itself.

### Germ cell mutagenicity

#### Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

Germ cell mutagenicity : No data is available on the product itself.

### Carcinogenicity

Carcinogenicity : No data is available on the product itself.

### Reproductive toxicity

Reproductive toxicity : No data is available on the product itself.

### Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic Toxicant - Single exposure : No data is available on the product itself.

### Target Organ Systemic Toxicant - Repeated exposure

Target Organ Systemic Toxicant - Repeated exposure : No data is available on the product itself.  
(E)-2-(3,5-dimethylhex-3-en-2-yloxy)-2-methylpropylcyclopropanecarboxylate : Species: Rat, male and female  
Method: OECD Test Guideline 407  
Repeated dose (28 days) toxicity (oral)

### Target Organ Systemic Toxicant - Repeated exposure Aspiration hazard

Aspiration toxicity : No data is available on the product itself.

### Phototoxicity

Phototoxicity : No data is available on the product itself.

Further information : no data available

## SECTION 12. Ecological information

### 12.1 Toxicity

Toxicity to fish : no data available  
Toxicity to daphnia and other aquatic invertebrates : no data available  
Toxicity to algae : no data available  
M-Factor  
2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene (main

Administrative information:  
Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23  
Sales & Distribution Information: HA01/FR/DE10/01  
Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

isomer)  
M-Factor  
(R)-p-mentha-1,8-diene : 1  
M-Factor  
1-methyl-4-isopropylidene-1- : 1  
cyclohexene (= terpinolene)  
M-Factor  
2,6,6-trimethyl- : 1  
Bicyclo[3.1.1]hept-2-ene (=   
alpha-pinene)  
M-Factor  
Bicyclo[3.1.1]heptane, 6,6- : 1  
dimethyl-2-methylene- (=   
Beta-pinene)  
M-Factor  
1,4-methanoazulene, : 10  
decahydro-4,8,8-trimethyl-9-  
methylene-, (1S-  
(1alpha,3abeta,4alpha,8abet  
a))-  
M-Factor  
1-(2,6,6-trimethyl-3- : 1  
cyclohexen-1-yl)-2-buten-1-  
one  
Toxicity to bacteria : no data available  
Toxicity to fish (Chronic : no data available  
toxicity)  
Toxicity to daphnia and other : no data available  
aquatic invertebrates  
(Chronic toxicity)  
  
Acute aquatic toxicity : no data available  
Chronic aquatic toxicity : no data available  
Toxicity Data on Soil : no data available  
Other organisms relevant to : no data available  
the environment

### 12.2 Persistence and degradability

Biodegradability : no data available

### 12.3 Bioaccumulative potential

Bioaccumulation : no data available

### 12.4 Mobility in soil

Mobility : no data available  
Distribution among : no data available  
environmental compartments  
Additional advice : no data available

#### Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

Environmental fate and  
pathways

Physico-chemical  
removability : no data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

Biochemical Oxygen  
Demand (BOD) : no data available

Dissolved organic carbon  
(DOC) : no data available

Chemical Oxygen Demand  
(COD) : no data available

Adsorbed organic bound  
halogens (AOX) : no data available

Additional ecological  
information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

## SECTION 13. Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

Dispose of in accordance with local regulations.

## SECTION 14. Transport information

### 14.1 UN number

ADR : UN 3082

Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

**RID** : UN 3082

**IMDG** : UN 3082

**IATA** : UN 3082

### 14.2 UN proper shipping name

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Octahydro-tetramethyl-naphthalenyl-ethanone, Methyl isopropenyl cyclohexene)

**RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Octahydro-tetramethyl-naphthalenyl-ethanone, Methyl isopropenyl cyclohexene)

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Octahydro-tetramethyl-naphthalenyl-ethanone, Methyl isopropenyl cyclohexene, Octahydro-tetramethyl-naphthalenyl-ethanone, Methyl isopropenyl cyclohexene)

**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(Octahydro-tetramethyl-naphthalenyl-ethanone, Methyl isopropenyl cyclohexene)

### 14.3 Transport hazard class(es)

**ADR** : 9

**RID** : 9

**IMDG** : 9

**IATA** : 9

### 14.4 Packing group

**ADR** : III

**RID** : III

**IMDG** : III

**IATA** : III

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : yes

**RID**  
Environmentally hazardous : yes

**IMDG**  
Marine pollutant : yes

Administrative information:  
Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23  
Sales & Distribution Information: HA01/FR/DE10/01  
Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

#### ADR

Tunnel restriction code : (-)

#### IMDG

IMDG Code Segregation : None  
Group

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

Not applicable for product as supplied.

## SECTION 15. Regulatory information

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

Major Accident Hazard : ENVIRONMENTAL HAZARDS  
Legislation E2  
Quantity 1: 200 t  
Quantity 2: 500 t

Water contaminating class : WGK 3 highly water endangering  
(Germany)

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

#### Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GIN TONIC LIME

Version 1.0

Revision Date 04 MAY 2018

Print Date 04 MAY 2018

### Key or legend to abbreviations and acronyms used in the safety data sheet

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### Administrative information:

Report Information: SDS\_PL/EN/GHS\_SDS\_EU\_CNTRY/23

Sales & Distribution Information: HA01/FR/DE10/01

Shipping Order Information: 15 923 262/8 128 602