

**Safety Data Sheet**  
*acc. to OSHA HCS*

Printing date 06/05/2018

Reviewed on 06/05/2018

**1 Identification**

- **Product identifier**
- **Trade name:** Ylang Ylang (Cananga odoranta)
- **Article number:**  
3568, 356802, 356805, 356808, 356810, 356829, 3568515, 3568531, 3659, 365902, 365903, 365908, 365910, 365911, 365915, 365929, 3659515, 3659531, 365976, 111160
- **CAS Number:** 8006-81-3
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Young Living  
3125 Executive Parkway  
Lehi, UT 84043  
productsafety@youngliving.com
- **Information department:** Health Sciences and Product Safety
- **Emergency telephone number:**  
Chemtrec (US): 1 (800) 424-9300  
Chemtrec (Outside US): +1 (703) 527-3887 (Collect calls accepted.)

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS08 Health hazard

Repr. 1A H360 May damage fertility or the unborn child.  
 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Irrit. 2A H319 Causes serious eye irritation.  
 Skin Sens. 1 H317 May cause an allergic skin reaction.  
 Flam. Liq. 4 H227 Combustible liquid.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07



GHS08

- **Signal word** *Danger*

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/05/2018

Reviewed on 06/05/2018

**Trade name: Ylang Ylang (Cananga odoranta)**

(Contd. of page 1)

· **Hazard-determining components of labeling:**

Ylang ylang Oil  
*p*-Methylanisole  
 beta-Caryophyllene  
 geranyl acetate

· **Hazard statements**

Combustible liquid.  
 Causes skin irritation.  
 Causes serious eye irritation.  
 May cause an allergic skin reaction.  
 May damage fertility or the unborn child.  
 May be fatal if swallowed and enters airways.

· **Precautionary statements**

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from flames and hot surfaces. – No smoking.  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wash thoroughly after handling.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If swallowed: Immediately call a poison center/doctor.  
 Specific treatment (see on this label).  
 Do NOT induce vomiting.  
 If on skin: Wash with plenty of water.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 IF exposed or concerned: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 Wash contaminated clothing before reuse.  
 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

US

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/05/2018

Reviewed on 06/05/2018

Trade name: Ylang Ylang (*Cananga odoranta*)

(Contd. of page 2)

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· <b>Dangerous components:</b>		
8006-81-3	Ylang ylang Oil ⚠ Asp. Tox. 1, H304; ⚠ Eye Irrit. 2A, H319; Skin Sens. 1, H317; Flam. Liq. 4, H227	>10–≤25%
140-11-4	benzyl acetate	>10–≤25%
120-51-4	Benzyl benzoate ⚠ Acute Tox. 4, H302	>10–≤25%
78-70-6	Linalool ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	>10–≤25%
93-58-3	methyl benzoate ⚠ Acute Tox. 4, H302; Flam. Liq. 4, H227	>2.5–<10%
104-93-8	p-Methylanisole ⚠ Flam. Liq. 3, H226; ⚠ Repr. 1A, H360; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	>2.5–<10%
87-44-5	beta-Caryophyllene ⚠ Asp. Tox. 1, H304	>2.5–<10%
105-87-3	geranyl acetate ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1–≤2.5%
· <b>Nonhazardous Components</b>		
37839-63-7	Germacrene D	>10–≤25%

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Dilute and rinse the skin with vegetable oil to dilute the essential oil
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
Apply vegetable oil with a sterile cloth around the eye to dilute any excess essential oil.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/05/2018

Reviewed on 06/05/2018

**Trade name: Ylang Ylang (Cananga odoranta)**

(Contd. of page 3)

- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

140-11-4	benzyl acetate	30 ppm
120-51-4	Benzyl benzoate	5.7 mg/m <sup>3</sup>
93-58-3	methyl benzoate	1.1 ppm

· **PAC-2:**

140-11-4	benzyl acetate	330 ppm
120-51-4	Benzyl benzoate	63 mg/m <sup>3</sup>
93-58-3	methyl benzoate	12 ppm

· **PAC-3:**

140-11-4	benzyl acetate	2,000 ppm
120-51-4	Benzyl benzoate	380 mg/m <sup>3</sup>
93-58-3	methyl benzoate	42 ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store in the dark away from heat.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

(Contd. on page 5)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/05/2018

Reviewed on 06/05/2018

**Trade name: Ylang Ylang (Cananga odoranta)**

(Contd. of page 4)

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

*The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.*

*At this time, the other constituents have no known exposure limits.*

<b>140-11-4 benzyl acetate</b>
TLV Long-term value: 61 mg/m <sup>3</sup> , 10 ppm

- **Additional information:** *The lists that were valid during the creation were used as basis.*

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

*Keep away from foodstuffs, beverages and feed.*

*Immediately remove all soiled and contaminated clothing.*

*Wash hands before breaks and at the end of work.*

*Avoid contact with the eyes and skin.*

- **Breathing equipment:**

*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.*

- **Protection of hands:**



Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*

*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

- **Material of gloves**

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*

- **Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Oily Liquid

**Color:** According to product specification

Pale Yellow

- **Odor:**

Characteristic

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/05/2018

Reviewed on 06/05/2018

Trade name: *Ylang Ylang (Cananga odoranta)*

(Contd. of page 5)

· <b>Odor threshold:</b>	<i>Not determined.</i>
· <b>pH-value at 20 °C (68 °F):</b>	<i>5.6</i>
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	<i>Undetermined.</i>
<b>Boiling point/Boiling range:</b>	<i>194–197,960 °C (381.2–356,360 °F)</i>
· <b>Flash point:</b>	<i>78.7 °C (173.7 °F)</i> <i>Does not sustain combustion.</i>
· <b>Flammability (solid, gaseous):</b>	<i>Not applicable.</i>
· <b>Ignition temperature:</b>	<i>460 °C (860 °F)</i>
· <b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>Auto igniting:</b>	<i>Product is not selfigniting.</i>
· <b>Danger of explosion:</b>	<i>Not determined.</i>
· <b>Explosion limits:</b>	
<b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>
· <b>Vapor pressure at 25 °C (77 °F):</b>	<i>1.9 hPa (1.4 mm Hg)</i>
· <b>Density at 20 °C (68 °F):</b>	<i>0.965 g/cm<sup>3</sup> (8.05293 lbs/gal)</i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapor density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	<i>Not miscible or difficult to mix.</i>
· <b>Partition coefficient (n-octanol/water):</b>	<i>Not determined.</i>
· <b>Viscosity:</b>	
<b>Dynamic:</b>	<i>Not determined.</i>
<b>Kinematic:</b>	<i>Not determined.</i>
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	<i>4.9 %</i>
<b>VOC content:</b>	<i>4.90 %</i> <i>47.3 g/l / 0.39 lb/gl</i>
<b>Solids content:</b>	<i>15.6 %</i>
· <b>Other information</b>	<i>No further relevant information available.</i>

## 10 Stability and reactivity

- **Reactivity** *No further relevant information available.*
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *No dangerous decomposition products known.*

US

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/05/2018

Reviewed on 06/05/2018

Trade name: Ylang Ylang (*Cananga odoranta*)

(Contd. of page 6)

## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimate)**

Oral	LD50	3,592.66 mg/kg (rat)
Dermal	LD50	25,641 mg/kg (rabbit)

**140-11-4 benzyl acetate**

Oral	LD50	2,490 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

**120-51-4 Benzyl benzoate**

Oral	LD50	1,700 mg/kg (rat)
Dermal	LD50	4,000 mg/kg (rabbit)

**78-70-6 Linalool**

Oral	LD50	2,790 mg/kg (rat)
Dermal	LD50	5,610 mg/kg (rabbit)

**93-58-3 methyl benzoate**

Oral	LD50	1,177 mg/kg (rat)
------	------	-------------------

**104-93-8 p-Methylanisole**

Oral	LD50	1,920 mg/kg (rat)
------	------	-------------------

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

Ylang Ylang: Skin sensitization (moderate risk). Cautions (dermal): Hypersensitive, diseased or damaged skin, children under 2 years. Maximum dermal use level 0.8%.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

140-11-4 benzyl acetate	3
-------------------------	---

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/05/2018

Reviewed on 06/05/2018

**Trade name: Ylang Ylang (Cananga odoranta)**

(Contd. of page 7)

- **Additional ecological information:**
- **General notes:**  
*Water hazard class 2 (Self-assessment): hazardous for water*  
*Do not allow product to reach ground water, water course or sewage system.*  
*Danger to drinking water if even small quantities leak into the ground.*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, IMDG, IATA</b></li> </ul>	<i>not regulated</i>
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT, IMDG, IATA</b></li> </ul>	<i>not regulated</i>
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul>	<i>not regulated</i>
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, IMDG, IATA</b></li> </ul>	<i>not regulated</i>
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>	<i>Not applicable.</i>
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>	<i>Not applicable.</i>
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	<i>Not applicable.</i>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<i>not regulated</i>

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

<ul style="list-style-type: none"> <li>· <b>Section 355 (extremely hazardous substances):</b></li> </ul>	<i>None of the ingredients is listed.</i>
<ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b></li> </ul>	<i>None of the ingredients is listed.</i>

(Contd. on page 9)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/05/2018

Reviewed on 06/05/2018

**Trade name: Ylang Ylang (Cananga odoranta)**

(Contd. of page 8)

<b>· TSCA (Toxic Substances Control Act):</b>	
8006-81-3	Ylang ylang Oil
140-11-4	benzyl acetate
120-51-4	Benzyl benzoate
78-70-6	Linalool
93-58-3	methyl benzoate
104-93-8	p-Methylanisole
87-44-5	beta-Caryophyllene
105-87-3	geranyl acetate

<b>· TSCA new (21st Century Act) (Substances not listed)</b>	
8006-81-3	Ylang ylang Oil
104-93-8	p-Methylanisole

**· Proposition 65**

<b>· Chemicals known to cause cancer:</b>	
None of the ingredients is listed.	

<b>· Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	

<b>· Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients is listed.	

<b>· Chemicals known to cause developmental toxicity:</b>	
None of the ingredients is listed.	

**· Carcinogenic categories**

<b>· EPA (Environmental Protection Agency)</b>	
None of the ingredients is listed.	

<b>· TLV (Threshold Limit Value established by ACGIH)</b>		
140-11-4	benzyl acetate	A4

<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
None of the ingredients is listed.	

**· GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**· Hazard pictograms**

GHS07 GHS08

**· Signal word** Danger**· Hazard-determining components of labeling:**

Ylang ylang Oil  
p-Methylanisole  
beta-Caryophyllene  
geranyl acetate

**· Hazard statements**

Combustible liquid.  
Causes skin irritation.  
Causes serious eye irritation.

(Contd. on page 10)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 06/05/2018

Reviewed on 06/05/2018

**Trade name: Ylang Ylang (Cananga odoranta)**

(Contd. of page 9)

*May cause an allergic skin reaction.*

*May damage fertility or the unborn child.*

*May be fatal if swallowed and enters airways.*

· **Precautionary statements**

*Obtain special instructions before use.*

*Do not handle until all safety precautions have been read and understood.*

*Keep away from flames and hot surfaces. – No smoking.*

*Avoid breathing dust/fume/gas/mist/vapors/spray*

*Wash thoroughly after handling.*

*Contaminated work clothing must not be allowed out of the workplace.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*If swallowed: Immediately call a poison center/doctor.*

*Specific treatment (see on this label).*

*Do NOT induce vomiting.*

*If on skin: Wash with plenty of water.*

*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*Take off contaminated clothing and wash it before reuse.*

*If skin irritation or rash occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*Wash contaminated clothing before reuse.*

*In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.*

*Store in a well-ventilated place. Keep cool.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing SDS:** *Health Sciences and Product Safety*

· **Contact:** *Patricia Atkinson*

· **Date of preparation / last revision** *06/05/2018 / -*

· **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)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*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)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*Flam. Liq. 3: Flammable liquids – Category 3*

(Contd. on page 11)

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 06/05/2018

Reviewed on 06/05/2018

**Trade name: Ylang Ylang (Cananga odoranta)**

(Contd. of page 10)

*Flam. Liq. 4: Flammable liquids – Category 4*  
*Acute Tox. 4: Acute toxicity – Category 4*  
*Skin Irrit. 2: Skin corrosion/irritation – Category 2*  
*Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A*  
*Skin Sens. 1: Skin sensitisation – Category 1*  
*Repr. 1A: Reproductive toxicity – Category 1A*  
*Asp. Tox. 1: Aspiration hazard – Category 1*

US