



Safety Data Sheet

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name		Ylang Ylang III Oil			
Biological Definition		Cananga Odorata Flower Oil is the third stage fraction obtained by the distillation of Ylang Ylang flowers, <i>Cananga odorata</i> , <i>Anonaceae</i> .			
INCI Name		Cananga Odorata Flower Oil			
Synonyms & Trade Names		-			
CAS-No	83863-30-3 / 8006-81-3 / 68606-83-7	EC No.	281-092-1 / - / -	EINECS No.	281-092-1 / - / -

1.2 Relative identified uses of the substance or mixture and uses advised against

No additional data available.

1.3 Details of the supplier of the safety data sheet

Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1

1.4 Emergency Tel. No.

604-540-8700 (Monday-Friday 8:30 am-4:30 pm)

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The Full Text for all Hazard Statements is displayed in Section 16.

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Aspiration hazard, Category 1 (Asp. Tox. 1, H304).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

Classification (EC 1272/2008)

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

2.2 Label Elements

Label in accordance with (EC) No 1272/2008

GHS08

GHS07



Signal Word

Danger

Contains

EC 204-262-9 BENZYL SALICYLATE
EC 225-004-1 FARNESOL.

Hazard Statements	
H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.	
Precautionary Statements	
P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.	
Supplementary Precautionary Statements	
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P331 Do NOT induce vomiting. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P501 Dispose of contents/container to waste disposal facility licensed.	
2.3 Other Hazards	
PBT or vPvB according to Annex XIII	The substance does not satisfy the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures	
<7.0% Benzyl Benzoate CAS-No.: 120-51-4 EC No.: 204-402-9	
Classification (EC 1272/2008) Acute Tox. 4 - H302, Aquatic Chronic 2 - H411	
< 4.0% Benzyl Salicylate CAS-No.: 118-58-1 EC No.: 204-262-9	
Classification (EC 1272/2008) Acute Tox. 5 - H303, Skin Sens. 1 - H317, Aquatic Acute 2 - H401, Aquatic Chronic 2 - H411	
<3.0% Linalool CAS-No.: 78-70-6 EC No.: 201-134-4	
Classification (EC 1272/2008) Acute Tox. 5 - H303, Skin Irrit. 2 - H315, Aquatic Acute 3 - H402	
<2.0% Benzyl Acetate CAS-No.: 140-11-4, EC: 205-399-7	
Classification (EC 1272/2008) Not Classified	
<3.0% Farnesol CAS-No.: 4602-84-0 EC No.: 225-004-1	
Classification (EC 1272/2008) Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317	
<1.0% Methyl Benzoate CAS-No.: 106-24-1 EC No.: 203-377-1	
Classification (EC 1272/2008) Acute Tox. 4, H302	
<1.0% P-Cresyl Methyl Ether CAS-No.: 104-93-8 EC No.: 203-253-7	
Classification (EC 1272/2008) Acute Tox. 4, H302, Skin Irrit. 2, H315, Eye Irrit. 2, H319, Aquatic Chronic 3, H412	

<1.0% Geraniol CAS-No.: 106-24-1 EC No.: 203-377-1

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Eye Dam. 1 - H318, Skin Sens. 1 - H317

< 0.5% Isoeugenol CAS-No.: 97-54-1 EC No.: 202-590-7

Classification (EC 1272/2008) Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317

04. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.
Ingestion	Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label. If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.
Skin Contact	Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc. In the event of an allergic reaction, seek medical attention. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

4.2 Most important symptoms and effects, both acute and delayed

No additional data available.

4.3 Indication of any immediate medical attention and special treatment needed

No additional data available.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

No additional data available.

5.2 Special hazards arising from the product

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO₂).

5.3 Advice for firefighters

No additional data available.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

<p>For non first aid worker Avoid any contact with the skin and eyes. For first aid worker First aid workers will be equipped with suitable personal protective equipment (See section 8).</p>
<p>6.2 Environmental Precautions</p>
<p>Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways.</p>
<p>6.3 Methods and material for containment and cleaning up.</p>
<p>Clean preferably with a detergent, do not use solvents.</p>
<p>6.4 Reference to other sections</p>
<p>No additional data available.</p>

07. HANDLING AND STORAGE

<p>7.1 Precautions for safe handling</p>
<p>Always wash hands after handling. Remove and wash contaminated clothing before re-using.</p> <p>Fire prevention: Never inhale this substance. Prevent access by unauthorised personnel.</p> <p>Recommended equipment and procedures: For personal protection, see section 8. Observe precautions stated on label and also industrial safety regulations.</p> <p>Prohibited equipment and procedures: No smoking, eating or drinking in areas where the substance is used.</p>
<p>7.2 Conditions for safe storage, including any incompatibilities</p>
<p>Storage Keep away from food and drink, including those for animals. Packaging Always keep in packaging made of an identical material to the original.</p>
<p>7.3 Specific end use(s)</p>
<p>No additional data available.</p>

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

<p>8.1 Control parameters</p>												
<p>Occupational exposure limits : - ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :</p> <table border="0"> <tr> <td>CAS</td> <td>TWA :</td> <td>STEL :</td> <td>Ceiling :</td> <td>Definition :</td> <td>Criteria :</td> </tr> <tr> <td>140-11-4</td> <td>10 ppm</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table> <p>Derived no effect level (DNEL) or derived minimum effect level (DMEL): Final use: Workers. Exposure method: Dermal contact. Potential health effects: Short term systemic effects. DNEL : 5 mg/kg body weight/day</p>	CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	140-11-4	10 ppm	-	-	-	-
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :							
140-11-4	10 ppm	-	-	-	-							

Exposure method: Dermal contact.
Potential health effects: Short term local effects.
DNEL : 15 mg of substance/cm²

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 2.5 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term local effects.
DNEL : 15 mg of substance/cm²

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 16.5 mg of substance/m³

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 2.8 mg of substance/m³

Final use: Consumers.
Exposure method: Ingestion.
Potential health effects: Short term systemic effects.
DNEL : 1.2 mg/kg body weight/day

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 0.2 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term systemic effects.
DNEL : 2.5 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term local effects.
DNEL : 15 mg of substance/cm²

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 1.25 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term local effects.
DNEL : 15 mg of substance/cm²

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 4.1 mg of substance/m³

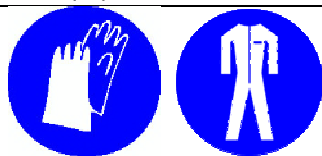
Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 0.7 mg of substance/m³

Predicted no effect concentration (PNEC):

Environmental compartment:	Soil.
PNEC :	0.327 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.2 mg/l
Environmental compartment:	Sea water.
PNEC :	0.02 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	2 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	2.22 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	0.222 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	10 mg/l

8.2 Exposure controls

Protective Equipment



Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	For high concentrations use respiratory equipment.
Hand Protection	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Recommended properties : - Impervious gloves in accordance with standard EN374
Eye Protection	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles in accordance with standard EN166.
Other Protection	Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing : In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	Use personal protection according to Directive 89/686/EEC.
Skin Protection	Wear apron or protective clothing in case of splashes.
Environmental Exposure	Avoid discharging into drainage water. Only eliminate by authorised companies.

Controls	
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09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid
Colour	Pale yellow to dark yellow
Odour	Characteristic
Relative Density	0.910 - 0.975 @ 20°C
Flash Point (°C)	93°C
Refractive Index	1.495 - 1.515 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available.

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No additional data available.

10.2 Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3 Possible hazardous reactions

No additional data available.

10.4 Conditions to Avoid

No additional data available.

10.5 Incompatible materials

No additional data available.

10.6 Hazardous Decomposition Products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO₂)

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	ISOEUGENOL (CAS: 97-54-1)	Oral route : LD50 = 1500 mg/kg Dermal route : LD50 = 1900 mg/kg
	GERANIOL (CAS: 106-24-1)	Oral route : LD50 = 4200 mg/kg
	P-CRESYL METHYL ETHER (CAS: 104-93-8)	Oral route : LD50 = 1900 mg/kg
	METHYL BENZOATE (CAS: 93-58-3)	Oral route : LD50 = 1300 mg/kg
	BENZYL ACETATE (CAS: 140-11-4)	Oral route : LD50 = 2490 mg/kg

	<p>LINALOOL (CAS: 78-70-6) Oral route : LD50 = 2200 mg/kg</p> <p>Species : Mouse OECD Guideline 401 (Acute Oral Toxicity) Dermal route : LD50 = 5610 mg/kg</p> <p>Species : Rabbit OECD Guideline 402 (Acute Dermal Toxicity)</p> <p>BENZYL SALICYLATE (CAS: 118-58-1) Oral route : LD50 = 2200 mg/kg.</p>
Skin corrosion / irritation	<p>May cause an allergic reaction by skin contact.</p> <p>LINALOOL (CAS: 78-70-6) Irritation : Average score = 1.85 Effect observed : Erythema score Species : Rabbit Duration of exposure : 24 h OECD Guideline 404 (Acute Dermal Irritation / Corrosion)</p>
Serious eye damage / irritation	<p>LINALOOL (CAS: 78-70-6)</p> <p>Corneal haze : Average score = 1 Species : Rabbit Duration of exposure : 24 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)</p> <p>Iritis : Average score = 0.6 Species : Rabbit Duration of exposure : 24 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)</p> <p>Conjunctival redness : Average score = 2.3 Species : Rabbit Duration of exposure : 24 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)</p>
Respiratory or skin sensitisation	<p>May be fatal if swallowed and enters airways. May cause discomfort if swallowed.</p>
Germ Cell Mutagenicity	<p>LINALOOL (CAS: 78-70-6)</p> <p>Mutagenesis (in vivo) : Negative. Species : Mouse OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) OECD Guideline 471 (Bacterial Reverse Mutation Assay)</p> <p>Ames test (in vitro) : Negative. With or without metabolic activation. Species : S. typhimurium TA1535</p>
Carcinogenicity	<p>LINALOOL (CAS: 78-70-6)</p> <p>Carcinogenicity Test : Negative. No carcinogenic effect. Species : Rat</p>
Reproductive toxicity	<p>LINALOOL (CAS: 78-70-6)</p>

	No toxic effect for reproduction Study on development : Species : Rat OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
STOT-single exposure	No additional data available
STOT-repeated exposure	No additional data available
Aspiration hazard	Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration. May be fatal if swallowed and enters airways. Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Fish toxicity : Duration of exposure : 96 h
LC50 = 27.8 mg/l
Species : *Oncorhynchus mykiss*
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : Duration of exposure : 48 h
EC50 = 59 mg/l
Species : *Daphnia magna*
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

12.2 Persistence & degradability

No additional data available.

12.3 Bioaccumulation Potential

No additional data available.

12.4 Mobility in soil

No additional data available.

12.5 Results of PBT and vPvB Assessment

No additional data available.

12.6 Other adverse effects

No additional data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not pour into drains or waterways.

Waste

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

14. TRANSPORT INFORMATION**14.1 UN number**

UN No. Road	Not regulated.
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UN No. SEA	Not regulated.
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UN No. AIR	Not regulated.
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14.2 UN proper shipping name

Not required.

14.3 Transport hazard class(es)

ADR/RID/ADN	Not Regulated
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IMDG	Not Regulated
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ICAO	Not regulated
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14.4 Packing group

ADR/RID/ADN Packing group	Not regulated
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IMDG Packing group	Not regulated
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ICAO Packing group	Not regulated
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14.5 Environmental hazards

Not hazardous.

14.6 Special precautions for user

None.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

No additional data available.

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical safety assessment

No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary	H302 Harmful if swallowed.
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Statements in Full	H302 + H312 Harmful if swallowed or in contact with skin. 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. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Other Information	None
Revision Date	October 6, 2015
Reason for revision	Updated SDS in to new format and addition of additional information.
Rev No/Repl, SDS Generated	02

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