



Safety Data Sheet

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

1.1 Product Identifier

Product Name	Lime Fragrance				
Biological Definition	Lime Fragrance				
INCI Name	Parfum				
Synonyms & Trade Names					
CAS-No	-	EC No.	-	EINECS No.	-

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

Concentrated material for manufacturing purposes only.

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.

Classification (EC 1272/2008)

Physical Hazards: not classified.
Health Hazards: eye dam. 1 – H318. Skin sens. 1 – H317
Environmental Hazards: Aquatic Chronic 2 – H411

2.2 Label Elements

Label in accordance with (EC) No 1272/2008



Signal Word

Danger

Contains

GERANIOL, HEXYL CINNAMAL, LIMONENE, CITRONELLOL,
HYDROXYCITRONELLAL

Hazard Statements

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H411 Toxic 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.
P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P501 Dispose of contents/container in accordance with national regulations.

Supplementary Precautionary Statements

P261 Avoid breathing vapour/spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P310 Immediately call a POISON CENTER/doctor.
 P321 Specific treatment (see medical advice on this label).
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P391 Collect spillage.

2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

1 - 5% Diethyl Phthalate Cas No: 84-66-2 EC No: 201-550-6

Classification (EC 1272/2008): not classified.

1 - 5% Hexyl Cinnamal Cas No: 101-86-0 EC No: 202-983-3

Classification (EC 1272/2008): M factor (Acute) = 1. Skin Sens. 1B - H317, Aquatic Acute 1 - H400
 Aquatic Chronic 2 - H411

1 - 5% 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

1 - 5% Linalool Cas No: 78-70-6 EC No: 201-134-4

Classification (EC 1272/2008): Skin Irrit. 2 - H315, Eye Irrit. 2 - H319

1 - 5% Gamma Undecalactone Cas No: 104-67-6 EC No: 203-225-4

Classification (EC 1272/2008): Aquatic Chronic 3 - H412

1 - 5% Hydroxycitronellal Cas No: 107-75-5 EC No: 203-518-7

Classification (EC 1272/2008): Eye Irrit. 2 - H319, Skin Sens. 1B - H317

1 - 5% Hexamethylindanopyran Cas No: 1222-05-5 EC No: 214-946-9

Classification (EC 1272/2008): M factor (Acute) = 1, M factor (Chronic) = 1,
 Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

1 - 5% Citronellol Cas No: 106-22-9 EC No: 203375-0

Classification (EC 1272/2008): Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317
 Aquatic Chronic 2 - H411

1 - 5% Limonene	Cas No: 138-86-3	EC No: 205-341-0
Classification (EC 1272/2008): M factor (Acute) = 1, M factor (Chronic) = 1, Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317 Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410		
1 - 5% 2-Propenyl Heptanoate (Allyl Heptanoate)	Cas No: 142-9-8	EC No: 205-527-1
Classification (EC 1272/2008): M factor (Acute) = 1, Acute Tox. 3 - H301, Acute Tox. 3 - H311, Acute Tox. 3 - H331 Aquatic Acute 1 - H400, Aquatic Chronic 3 - H412		

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove immediately from source of exposure into fresh air. Seek medical attention if discomfort continues.
Ingestion	Give plenty of water to drink. Rinse mouth and provide fresh air. Seek medical attention immediately.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Seek medical attention if symptoms are severe or persist after washing.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Seek medical attention immediately. Continue to rinse.
4.2 Most important symptoms and effects, both acute and delayed	
<u>General information:</u> Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. See Section 11 for additional information on health hazards.	
4.3 Indication of any immediate medical attention and special treatment needed	
No specific recommendations.	

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	
Extinguishing media: Carbon dioxide (CO ₂). Powder. Foam. Unsuitable extinguishing media: Water.	
5.2 Special hazards arising from the product	
Toxic gases or vapours may be formed.	
5.3 Advice for firefighters	
<u>Protective actions during firefighting:</u> Containers close to fire should be removed or cooled with water. <u>Special protective equipment for firefighters:</u> Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	

06. ACCIDENTAL RELEASE MEASURES


6.1 Personal precautions, protective equipment and emergency procedures	
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage.	
6.2 Environmental Precautions	

Do not discharge into drains, water courses or onto the ground.
6.3 Methods and material for containment and cleaning up.
Keep combustible materials away from spillage. Eliminate all sources of ignition. Provide adequate ventilation. Contain and absorb spillage with sand, earth or other non-combustible material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Wash thoroughly after dealing with a spillage.
6.4 Reference to other sections
No additional data available.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling
<p><u>Usage precautions</u> Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin, eyes and clothing.</p> <p><u>Advice on general occupational hygiene</u> Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.</p>
7.2 Conditions for safe storage, including any incompatibilities
<p><u>Storage precautions</u> Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.</p>
7.3 Specific end use(s)
No additional data available.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	
<p><u>Occupational exposure limits</u> DIETHYL PHTHALATE</p> <p>Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ Short-term exposure limit (15-minute): WEL 10 mg/m³ WEL = Workplace Exposure Limit</p>	
8.2 Exposure controls	
Protective Equipment	
	
Process Conditions	No additional data available
Engineering Measures	Provide adequate ventilation or respiratory protection.
Respiratory Equipment	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.
Hand Protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Eye Protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	Avoid contact with skin and eyes. Avoid inhalation of vapours.
Skin Protection	Wear apron or protective clothing in case of splashes.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear Mobile Liquid.
Colour	Pale yellow.
Odour	Characteristic - Exotic, fruit, sweet.
Relative Density	Approx. 1.000 @ 20°C.
Flash Point (°C)	> 62
Refractive Index	Approx. 1.455 @ 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	No additional data available.
Auto-ignition temperature (°C)	No additional data available.

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Presents no significant reactivity hazard, by itself or in contact with water.

10.2 Chemical stability

Stable under the recommended handling, temperature and storage conditions.

10.3 Possible hazardous reactions

Will not polymerise.

10.4 Conditions to Avoid

Avoid: Strong oxidising agents. Strong acids. Strong alkalis.

10.5 Incompatible materials

Avoid contact with strong acids, alkalis or oxidising agents.

10.6 Hazardous Decomposition Products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	Acute toxicity – oral	ATE oral (mg/kg) 21,800.0
	Acute toxicity – dermal	ATE dermal (mg/kg) 81,000.0
	Acute toxicity – inhalation	ATE inhalation (vapours mg/l) 300.0
<u>Toxicological information on ingredients.</u> 2-PROPENYL HEPTANOATE (ALLYL HEPTANOATE)		

	<u>Acute toxicity - oral</u> Acute toxicity oral (LD ₅₀ mg/kg) 218.0 Species Rat ATE oral (mg/kg) 218.0 <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD ₅₀ mg/kg) 810.0 Species Rat ATE dermal (mg/kg) 810.0 <u>Acute toxicity - inhalation</u> ATE inhalation (vapours mg/l) 3.0
Skin corrosion / irritation	May cause an allergic skin reaction.
Serious eye damage / irritation	Causes serious eye damage.
Respiratory or skin sensitisation	No additional data available.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	No additional data available.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	No additional data available.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

HEXYL CINNAMAL

Acute aquatic toxicity LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

HEXAMETHYLINDANOPYRAN

Acute aquatic toxicity LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

NOEC 0.001 < NOEC ≤ 0.01

Degradability Rapidly degradable

M factor (Chronic) 1

LIMONENE

Acute aquatic toxicity LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

2-PROPENYL HEPTANOATE (ALLYL HEPTANOATE)

Acute aquatic toxicity LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1


12.2 Persistence & degradability

The product contains substances which are not expected to be biodegradable.
12.3 Bioaccumulation Potential
The product does not contain any substances expected to be bioaccumulating.
12.4 Mobility in soil
The product is insoluble in water.
12.5 Results of PBT and vPvB Assessment
This product does not contain any substances classified as PBT or vPvB.
12.6 Other adverse effects
Do not allow product to enter streams, sewers or other waterways. Water Hazard Class; WGK-2

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Collect and dispose of waste product in accordance with local authority guidelines using a hazardous chemical disposal company. Product remainders should not intrude soil or waters.

14. TRANSPORT INFORMATION

14.1 UN number
UN No. Road 3082
UN No. SEA 3082
UN No. AIR 3082
14.2 UN proper shipping name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS HEXYL CINNAMAL, HEXAMETHYLINDANOPYRAN).
14.3 Transport hazard class(es)
ADR/RID class 9
ADR/RID classification code M6
ADR/RID label 9
IMDG class 9
ICAO class/division 9
ADN class 9
Transport labels

14.4 Packing group
ADR/RID packing group III
IMDG packing group III
ADN packing group III
ICAO packing group III
14.5 Environmental hazards
Environmentally hazardous substance/marine pollutant



14.6 Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

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

Not applicable.

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 Statements in Full	H226 Flammable liquid and vapour. H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic 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. H331 Toxic 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. H412 Harmful to aquatic life with long lasting effects.
Other Information	None
Revision Date	July 20, 2017
Reason for revision	New SDS
Rev No/Repl, SDS Generated	01

DISCLAIMER: This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.