

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade Name:** Lemon Grass

### 1.2 Relevant identified product use

**Intended use:** Compound used in customer substance/mixture/product

### 1.3 Details of the manufacturer/supplier of the safety data sheet

**Manufacturer:** Wellington Fragrance Company  
33306 Glendale St.  
Livonia, MI 48150  
support@wellingtonfragrance.com

### 1.4 Emergency telephone number

**(800) 255-3924** Domestic USA, Canada, Puerto Rico, and US Virgin Islands

**+1 813 248-0585** International

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

This mixture has not been tested as a whole. The effects, listed below, are based on evaluation of individual components in accordance with the provisions of the regulation(s) noted below.

#### Classification according to GHS

Acute Toxicity Oral, Category 5	H303 : May be harmful if swallowed
Aspiration Hazard, Category 1	H304 : May be fatal if swallowed and enters airways
Acute Toxicity Dermal, Category 5	H313 : May be harmful in contact with skin
Skin Corrosion/Irritation, Category 2	H315 : Causes skin irritation
Sensitization, Skin, Category 1A	H317 : May cause an allergic skin reaction
Eye Damage/Eye Irritation, Category 2A	H319 : Causes serious eye irritation
Acute Toxicity Inhalation, Category 5	H333 : May be harmful if inhaled
Aquatic Acute Toxicity, Category 1	H400 : Very Toxic to aquatic life
Aquatic Chronic Toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

#### Classification OSHA (Provisions 1910.1200 of title 29)

Flammable Liquids, Category 4	H227 : Combustible liquid
Aspiration Hazard, Category 1	H304 : May be fatal if swallowed and enters airways
Skin Corrosion/Irritation, Category 2	H315 : Causes skin irritation
Sensitization, Skin, Category 1A	H317 : May cause an allergic skin reaction
Eye Damage/Eye Irritation, Category 2A	H319 : Causes serious eye irritation
Reproductive Toxicity, Category 2	H361 : Suspected of damaging fertility or the unborn child

#### Classification Other

Carcinogenicity This mixture contains ingredients identified as carcinogens, at 0.1% or greater, by the following: None [ ] ACGIH [ ] IARC [X] NTP [ ] OSHA [ ]

### 2.2 Label elements

## Labelling (GHS)

### Hazard pictograms



**Signal Word: Danger**

### Hazard statements

H227	Combustible liquid
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways
H313	May be harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H361	Suspected of damaging fertility or the unborn child
H400	Very Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

### Precautionary Statements

#### Prevention:

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P235	Keep cool
P264	Wash hands thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P281	Use personal protective equipment as required

#### Response:

P301 + P310 + P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting
P302 + P352	IF ON SKIN: Wash with soap and water
P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses if present and easy to do. continue rinsing
P308 + P313	IF exposed or concerned: Get medical advice/attention
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P333 + P313	If skin irritation or a rash occurs: Get medical advice/attention
P337 + P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P370 + P378	In case of fire: Use Carbon dioxide (CO2), Dry chemical, or Foam for extinction. Do not use a direct water jet on burning material
P391	Collect Spillage

**2.3 Other Hazards**

no data available

**3. Composition/Information on Ingredients**

**3.1 Mixtures**

This product is a complex mixture of ingredients, which contains among others the following substance(s), presenting a health or environmental hazard within the meaning of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

CAS# Ingredient	EC#	Conc. Range	GHS Classification
<b>5989-27-5</b> <i>Limonene</i>	227-813-5	20 - 30 %	H226; H304; H315; H317; H400; H412
<b>5392-40-5</b> <i>Citral</i>	226-394-6	10 - 20 %	H313; H315; H317; H319; H401
<b>120-51-4</b> <i>Benzyl Benzoate</i>	204-402-9	10 - 20 %	H302; H313; H400; H411
<b>586-62-9</b> <i>Terpinolene</i>	209-578-0	5 - 10 %	H227; H303; H304; H316; H317; H400; H410
<b>80-56-8</b> <i>pinene</i>	201-291-9	2 - 5 %	H226; H302; H304; H315; H317; H400; H410
<b>127-91-3</b> <i>beta Pinene</i>	204-872-5	1 - 2 %	H226; H304; H315; H317; H400; H410
<b>98-55-5</b> <i>Terpineol</i>	202-680-6	1 - 2 %	H227; H303; H315; H319; H401
<b>78-70-6</b> <i>Linalool</i>	201-134-4	0.1 - 1.0 %	H227; H303; H315; H317; H319; H402
<b>6485-40-1</b> <i>l-Carvone</i>	229-352-5	0.1 - 1.0 %	H227; H303; H313; H317; H401
<b>99-85-4</b> <i>gamma-Terpinene</i>	202-794-6	0.1 - 1.0 %	H226; H303; H304; H316; H361
<b>105-87-3</b> <i>Geranyl Acetate</i>	203-341-5	0.1 - 1.0 %	H315; H317; H401; H412
<b>87-44-5</b> <i>Beta-Caryophyllene</i>	201-746-1	0.1 - 1.0 %	H304; H317
<b>106-23-0</b> <i>Citronellal</i>	203-376-6	0.1 - 1.0 %	H227; H303; H313; H315; H317; H319; H401
<b>106-22-9</b> <i>Citronellol</i>	203-375-0	0.1 - 1.0 %	H303; H313; H315; H317; H319; H401
<b>470-82-6</b> <i>Eucalyptol</i>	207-431-5	0.1 - 1.0 %	H226; H303; H317; H320; H402

See Section 16 for full text of GHS classification codes

See Section 16 for full text of GHS classification codes which were not shown in section 2

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Total Hydrocarbon Content (% w/w) = 36.53

## 4. First Aid Measures

### 4.1 Description of first aid measures

<b>Inhalation:</b>	Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
<b>Eye Exposure:</b>	Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
<b>Skin Exposure:</b>	Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
<b>Ingestion:</b>	Rinse mouth with water and obtain medical advice.

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

<b>Symptoms:</b>	no data available
<b>Risks:</b>	Refer to Section 2.2 "Hazard Statements"

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

<b>Treatment:</b>	Refer to Section 2.2 "Response"
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## 5. Fire-Fighting measures

### 5.1 Extinguishing media

<b>Suitable:</b>	Carbon dioxide (CO <sub>2</sub> ), Dry chemical, Foam
<b>Unsuitable</b>	Do not use a direct water jet on burning material

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

<b>During fire fighting:</b>	Water may be ineffective
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### 5.3 Advice for firefighters

<b>Further information:</b>	Standard procedure for chemical fires
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## 6. Accidental Release Measures

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

Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

### 6.2 Environmental precautions

Keep away from drains, soil, and surface and groundwater.

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

Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapors. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

### 6.4 Reference to other sections

Not Applicable

## 7. Handling and Storage

### 7.1 Precautions for safe handling

Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene.

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

Store in a cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Avoid uncoated metal container. Keep air contact to a minimum.

### 7.3 Specific end uses

No information available

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Exposure Limits:

#### Component

**80-56-8**      *pinene*  
**127-91-3**      *beta Pinene*

ACGIH TWA ppm	ACGIH STEL ppm	OSHA TWA ppm	OSHA STEL ppm
		20	
		20	

**Engineering Controls:**      Use local exhaust as needed.

### 8.2 Exposure controls - Personal protective equipment

**Eye protection:**              Tightly sealed goggles, face shield, or safety glasses with brow guards and side shields, etc. as may be appropriate for the exposure

**Respiratory protection:**      Avoid excessive inhalation of concentrated vapors. Apply local ventilation where appropriate.

**Skin protection:**              Avoid Skin contact. Use chemically resistant gloves as needed.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Liquid
<b>Odor:</b>	Conforms to Standard
<b>Color:</b>	Conforms to Standard
<b>Viscosity:</b>	Liquid
<b>Freezing Point:</b>	Not determined
<b>Boiling Point:</b>	Not determined
<b>Melting Point:</b>	Not determined
<b>Flashpoint (CCCFP):</b>	146 F (63.33 C)
<b>Auto flammability:</b>	Not determined
<b>Explosive Properties:</b>	None Expected
<b>Oxidizing properties:</b>	None Expected
<b>Vapor Pressure (mmHg@20 C):</b>	0.3992
<b>%VOC:</b>	35.16
<b>Specific Gravity @ 25 C:</b>	Not determined

Product: **Lemon Grass**

Density (g/mL) @ 25 C:	Not determined
Refractive Index @ 20 C:	Not determined
Soluble in:	Oil

## 10. Stability and Reactivity

10.1 Reactivity	None
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	None known
10.4 Conditions to avoid	None known
10.5 Incompatible materials	Strong oxidizing agents, strong acids, and alkalis
10.6 Hazardous decomposition products	None known

## 11. Toxicological Information

### 11.1 Toxicological Effects

Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"

Acute toxicity - Oral - (Rat) mg/kg	(LD50: 3889.4921) May be harmful if swallowed
Acute toxicity - Dermal - (Rabbit) mg/kg	(LD50: 4595.8750) May be harmful in contact with skin
Acute toxicity - Inhalation - (Rat) mg/L/4hr	(LD50: 123.8005) May be harmful if inhaled
Skin corrosion / irritation	Causes skin irritation
Serious eye damage / irritation	Causes serious eye irritation
Respiratory sensitization	Not classified - the classification criteria are not met
Skin sensitization	May cause an allergic skin reaction
Germ cell mutagenicity	Not classified - the classification criteria are not met
Carcinogenicity	Not classified - the classification criteria are not met
Reproductive toxicity	Suspected of damaging fertility or the unborn child
Specific target organ toxicity - single exposure	Not classified - the classification criteria are not met
Specific target organ toxicity - repeated exposure	Not classified - the classification criteria are not met
Aspiration hazard	May be fatal if swallowed and enters airways

## 12. Ecological Information

### 12.1 Toxicity

Acute aquatic toxicity	Very Toxic to aquatic life
Chronic aquatic toxicity	Toxic to aquatic life with long lasting effects
Toxicity Data on soil	no data available
Toxicity on other organisms	no data available

12.2 Persistence and degradability	no data available
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<b>12.3 Bioaccumulative potential</b>	no data available
<b>12.4 Mobility in soil</b>	no data available
<b>12.5 Other adverse effects</b>	no data available

## 13. Disposal Conditions

### 13.1 Waste treatment methods

Do not allow product to reach sewage systems. Dispose of in accordance with all local and national regulations. Send to a licensed waste management company. 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.

## 14. Transport Information

**Marine Pollutant** Yes. Ingredient of greatest environmental impact :  
5989-27-5 : (20 - 30 %) : Limonene

Regulator	Class	Pack Group	Sub Risk	UN-nr.
<b>U.S. DOT (Non-Bulk)</b> Chemicals NOI	Not Regulated - Not Dangerous Goods			
<b>ADR/RID (International Road/Rail)</b> Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082
<b>IATA (Air Cargo)</b> Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082
<b>IMDG (Sea)</b> Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082

## 15. Regulatory Information

### U.S. Federal Regulations

**TSCA (Toxic Substance Control Act)** All components of the substance/mixture are listed or exempt  
**40 CFR(EPCRA, SARA, CERCLA and CAA)** This product contains NO components of concern.

### U.S. State Regulations

**California Proposition 65 Warning** This product contains the following components:  
123-35-3(NF 204-622-5 0.1 - 1.0 % beta-Myrcene (Natural Source)

### Canadian Regulations

**DSL** 100.00% of the components are listed or exempt.

## 16. Other Information

### GHS H-Statements referred to under section 3 and not listed in section 2

H226 : Flammable liquid and vapour

H302 : Harmful if swallowed

H316 : Causes mild skin irritation

H317 : May cause an allergic skin reaction

Product: **Lemon Grass**

H320 : Causes eye irritation  
H402 : Harmful to aquatic life

H412 : Harmful to aquatic life with long lasting effects

### Total Fractional Values

(TFV) Risk

(153.66) Sensitization, Skin, Category 1  
(60.69) Aquatic Chronic Toxicity, Category 3  
(21.87) Sensitization, Skin, Category 1B  
(5.47) Skin Corrosion/Irritation, Category 3  
(3.64) Aspiration Hazard, Category 1  
(1.88) Eye Damage/Eye Irritation, Category 2A  
(1.85) Aquatic Acute Toxicity, Category 1  
(1.09) Acute Toxicity Dermal, Category 5

H401 : Toxic to aquatic life

H410 : Very toxic to aquatic life with long lasting effects

(TFV) Risk

(153.66) Sensitization, Skin, Category 1A  
(40.39) Acute Toxicity Inhalation, Category 5  
(5.98) Aquatic Chronic Toxicity, Category 2  
(4.44) Skin Corrosion/Irritation, Category 2  
(2.91) Reproductive Toxicity, Category 2  
(1.88) Aquatic Chronic Toxicity, Category 4  
(1.29) Acute Toxicity Oral, Category 5

**Department issuing data sheet:** Wellington Fragrance Company  
**Department E-mail address:** support@wellingtonfragrance.com

### Remarks

This safety data sheet is based on the properties of the material known to Wellington Fragrance Company at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment Wellington Fragrance holds no responsibility. This document is not intended for quality assurance purposes.