

### SECTION 1: Identification

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: LEMONGRASS, LIME GINGER 232684BB
Type of product	: Perfumes, Fragrances
Product group	: Trade product

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

Use of the substance/mixture	: Perfumes, Fragrances
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#### 1.3. Supplier's details

##### Manufacturer

Sensetek  
 24 Village Crescent  
 Linbro Business Park, Sandton  
 P.O. Box PO Box 2598  
 2065 Gauteng,  
 T +27 11 608 4944/5  
[sales@sensetek.biz](mailto:sales@sensetek.biz) - [www.sensetek.co.za](http://www.sensetek.co.za)

#### 1.4. Emergency telephone number

Emergency number	: +27 83 382 1905
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to the United Nations GHS

Flammable liquids, Category 3	H226
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment — Acute Hazard, Category 2	H401
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412
Full text of H statements : see section 16	

#### 2.2. Label elements

##### Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA) :



Signal word (GHS-ZA)	: Danger
Hazardous ingredients	: Citral; GERANIOL; Geranyl acetate; d-Limonene; Amines, coco alkyldimethyl, N-oxides; Terpinolene; Eugenol; Coumarin
Hazard statements (GHS-ZA)	: H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H401 - Toxic to aquatic life H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (GHS-ZA)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P261 - Avoid breathing vapours, spray, mist. P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective clothing, eye protection, face protection.

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According to SANS 10234:2019 and SANS 11014:2010

P302+P352 - IF ON SKIN: Wash with plenty of water.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a doctor, a POISON CENTER.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice, medical attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use alcohol resistant foam, extinguishing powder, carbon dioxide (CO<sub>2</sub>) to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P501 - Dispose of contents and container to an approved waste disposal plant.

### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Flammable liquid and vapour, Causes skin irritation, May cause an allergic skin reaction, Causes serious eye damage, Toxic to aquatic life, Harmful to aquatic life with long lasting effects.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Amines, coco alkyldimethyl, N-oxides	(CAS-No.) 61788-90-7	8.047	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400
Citral	(CAS-No.) 5392-40-5	5.25 – 7	Flam. Liq. 4, H227 Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401
Eugenol	(CAS-No.) 97-53-0	1.2015	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Irrit. 3, H316 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401
d-Limonene	(CAS-No.) 5989-27-5	0.5599 – 0.8399	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
GERANIOL	(CAS-No.) 106-24-1	0.35 – 0.7	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 3, H402
Geranyl acetate	(CAS-No.) 105-87-3	0.35 – 0.7	Flam. Liq. 4, H227 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Terpinolene	(CAS-No.) 586-62-9	0.2223	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Skin Irrit. 3, H316 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 1, H410
Coumarin	(CAS-No.) 91-64-5	0.215	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 3, H402

Full text of H-statements: see section 16

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According to SANS 10234:2019 and SANS 11014:2010

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

- Fire hazard : Flammable liquid and vapour.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

No additional information available

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing vapours, spray, mist.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing vapours, mist, spray.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

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According to SANS 10234:2019 and SANS 11014:2010

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves  
Eye protection : Safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):



### 8.4. Exposure limit values for the other components

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : No data available  
Colour : No data available  
Odour : characteristic.  
Odour threshold : No data available  
pH : No data available  
pH solution : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Relative evaporation rate (ether=1) : No data available  
Melting point : Not applicable  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : Not applicable  
Vapour pressure : No data available  
Vapour pressure at 50 °C : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Relative density of saturated gas/air mixture : No data available  
Density : No data available  
Relative gas density : No data available  
Solubility : No data available  
Partition coefficient n-octanol/water (Log Pow) : No data available  
Partition coefficient n-octanol/water (Log Kow) : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : No data available  
Lower explosive limit (LEL) : No data available  
Upper explosive limit (UEL) : No data available

### 9.2. Other information

No additional information available

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According to SANS 10234:2019 and SANS 11014:2010

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Citral (5392-40-5)	
LD50 dermal	2250 mg/kg bodyweight
GERANIOL (106-24-1)	
LD50 oral	3600 mg/kg bodyweight
LD50 dermal rabbit	5000 mg/kg
Geranyl acetate (105-87-3)	
LD50 oral rat	6330 mg/kg bodyweight
LD50 dermal rabbit	6 ml/kg
d-Limonene (5989-27-5)	
LD50 oral rat	2000 mg/kg bodyweight
Terpinolene (586-62-9)	
LD50 oral rat	3740 mg/kg bodyweight
LD50 oral	3850 mg/kg bodyweight
LD50 dermal rabbit	4300 mg/kg bodyweight
Eugenol (97-53-0)	
LD50 oral	2300 mg/kg bodyweight
Coumarin (91-64-5)	
LD50 oral	500 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

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According to SANS 10234:2019 and SANS 11014:2010

<b>GERANIOL (106-24-1)</b>	
LC50 fish 1	22 mg/l
EC50 Daphnia 1	10.8 mg/l
EC50 72h algae (1)	13.1 mg/l
Partition coefficient n-octanol/water (Log Pow)	2.6

<b>Geranyl acetate (105-87-3)</b>	
LC50 fish 1	68.12 mg/l
EC50 Daphnia 1	14.1 mg/l
EC50 72h algae (1)	3.72 mg/l
Partition coefficient n-octanol/water (Log Pow)	4.04

<b>d-Limonene (5989-27-5)</b>	
LC50 fish 1	460 – 720 µg/l
EC50 Daphnia 1	307 – 510 µg/l
Partition coefficient n-octanol/water (Log Pow)	4.38

<b>Terpinolene (586-62-9)</b>	
LC50 fish 1	702 – 18000 µg/l
EC50 Daphnia 1	421 – 14850 µg/l

### 12.2. Persistence and degradability

<b>LEMONGRASS, LIME GINGER 232684BB</b>	
Persistence and degradability	No additional information available

### 12.3. Bioaccumulative potential

<b>LEMONGRASS, LIME GINGER 232684BB</b>	
Bioaccumulative potential	No additional information available

<b>GERANIOL (106-24-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.6

<b>Geranyl acetate (105-87-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.04

<b>d-Limonene (5989-27-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.38

### 12.4. Mobility in soil

<b>LEMONGRASS, LIME GINGER 232684BB</b>	
Mobility in soil	No additional information available

<b>GERANIOL (106-24-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.6

<b>Geranyl acetate (105-87-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.04

<b>d-Limonene (5989-27-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.38

### 12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapours may accumulate in the container.

## SECTION 14: Transport information




In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
<b>14.1. UN number</b>		
1169	1169	1169
<b>14.2. Proper Shipping Name</b>		
EXTRACTS, AROMATIC, LIQUID	EXTRACTS, AROMATIC, LIQUID	Extracts, aromatic, liquid
<b>14.3. Transport hazard class(es)</b>		
3	3	3

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According to SANS 10234:2019 and SANS 11014:2010

SANS	IMDG	IATA
		 Not applicable
<b>14.4. Packing group</b>		
III	III	III
<b>14.5. Environmental hazards</b>		
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available		

### 14.6. Special precautions for user

#### - SANS

Special provisions (SANS)	: 223
Limited quantities (SANS)	: 5 L
Limited quantities (SANS)	: 5 L
Packagings, large packagings and IBCs	: P001, IBC03, LP01
Packing instructions (SANS)	
Portable tank and bulk containers instructions (SANS)	: T2
Portable tank and bulk container special provisions (SANS)	: TP1

#### - IMDG

Special provisions (IMDG)	: 223, 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.

#### - IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health, and environmental national regulations specific for the product

Regulatory reference	: SANS 10234:2019; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.
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## SECTION 16: Other information

Issue date : 06/10/2020

Full text of H-statements:

H226

Flammable liquid and vapour.

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## Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

H227	Combustible liquid
H228	Flammable solid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin
H315	Causes skin irritation.
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H402	Harmful 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.

SDS South Africa

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*