

### SECTION 1: Identification

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: PEAR & CINNAMON 274733 B
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
Recommended uses and restrictions	: Perfumes, fragrances
Recommended use	: Perfumes, fragrances

#### 1.3. Supplier's details

##### Manufacturer

Sensetek  
24 Village Crescent, Linbro Business Park ,  
Sandton ,  
2065 Gauteng , - South Africa  
T +27 11 608 4944/5  
[Mike.capon@sensetek.biz](mailto:Mike.capon@sensetek.biz) - <http://sensetek.co.za/>

#### 1.4. Emergency telephone number

Emergency number : +27 83 382 1905

### SECTION 2: Hazards identification

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

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

Flammable liquids, Category 4	H227
Skin corrosion/irritation, Category 3	H316
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment — Acute Hazard, Category 2	H401
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

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)	: Warning
Hazardous ingredients	: Geranyl acetate; Neryl acetate; 2-Hexyl-(E)-cinnamaldehyde; 2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde; Piperonal; Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene; Eugenol
Hazard statements (GHS ZA)	: H227 - Combustible liquid H316 - Causes mild skin irritation H317 - May cause an allergic skin reaction. H411 - Toxic 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. P261 - Avoid breathing vapours, spray, mist, fume. P272 - Contaminated work clothing should not be allowed out of the workplace.

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P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice.  
P333+P313 - If skin irritation or rash occurs: Get medical attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, foam to extinguish.  
P391 - Collect spillage.  
P403 - Store in a well-ventilated place.  
P501 - Dispose of contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Causes mild skin irritation, May cause an allergic skin reaction, Toxic to aquatic life, Toxic 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
HEXAMETHYLINDANOPYRAN	CAS-No.: 1222-05-5	2.25 – 4.5	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) Skin Irrit. 3, H316 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Geranyl acetate	CAS-No.: 105-87-3	2 – 4	Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
cis-2-tert-Butylcyclohexyl acetate	CAS-No.: 20298-69-5	2 – 4	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Irrit. 3, H316 Aquatic Chronic 2, H411
gamma-Undecalactone	CAS-No.: 104-67-6	2 – 4	Flam. Liq. Not classified Skin Irrit. 3, H316 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Neryl acetate	CAS-No.: 141-12-8	0.4 – 2	Flam. Liq. Not classified Skin Sens. 1B, H317 Aquatic Acute 2, H401
Hexyl acetate	CAS-No.: 142-92-7	0.4 – 2	Flam. Liq. 3, H226 Skin Irrit. 3, H316 Aquatic Acute 2, H401

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Name	Product identifier	%	Classification according to the United Nations GHS
2-Hexyl-(E)-cinnamaldehyde	CAS-No.: 165184-98-5	0.4 – 2	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Skin Irrit. 3, H316 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Eugenol	CAS-No.: 97-53-0	1.458	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Skin Irrit. 3, H316 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Aquatic Acute 2, H401
Vanillin	CAS-No.: 121-33-5	0.5 – 1	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2A, H319 Aquatic Acute 3, H402
2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde	CAS-No.: 68039-49-6	0.04 – 0.4	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Piperonal	CAS-No.: 120-57-0	0.05 – 0.25	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Skin Sens. 1, H317
Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	CAS-No.: 144020-22-4	0.05 – 0.25	Flam. Liq. Not classified Skin Irrit. 3, H316 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

## 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	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
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.
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### 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.
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According to SANS 10234:2019 and SANS 11014:2010

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

Fire hazard : Combustible liquid.  
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. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing vapours, spray, mist.  
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

Storage conditions : Store in a well-ventilated place. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 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

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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

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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According to SANS 10234:2019 and SANS 11014:2010

### 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

#### Geranyl acetate (105-87-3)

LD50 oral rat	6330 mg/kg bodyweight
LD50 dermal rabbit	6 ml/kg

#### HEXAMETHYLINDANOPYRAN (1222-05-5)

LD50 oral rat	4640 mg/kg bodyweight
LD50 dermal rat	10000 mg/kg bodyweight

#### cis-2-tert-Butylcyclohexyl acetate (20298-69-5)

LD50 oral	4600 mg/kg bodyweight
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#### 2-Hexyl-(E)-cinnamaldehyde (165184-98-5)

LD50 oral	3100 mg/kg bodyweight
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#### 2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde (68039-49-6)

LD50 oral	3900 mg/kg bodyweight
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#### Vanillin (121-33-5)

LD50 oral	3500 mg/kg bodyweight
LD50 dermal rat	2000 mg/kg bodyweight

#### Piperonal (120-57-0)

LD50 oral	2700 mg/kg bodyweight
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#### Eugenol (97-53-0)

LD50 oral	2300 mg/kg bodyweight
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Skin corrosion/irritation : Causes mild skin irritation.  
Serious eye damage/irritation : Not classified  
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

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According to SANS 10234:2019 and SANS 11014:2010

STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

Geranyl acetate (105-87-3)	
LC50 - Fish [1]	68.12 mg/l
EC50 - Crustacea [1]	14.1 mg/l
EC50 72h - Algae [1]	3.72 mg/l
Partition coefficient n-octanol/water (Log Pow)	4.04

HEXAMETHYLINDANOPYRAN (1222-05-5)	
LC50 - Fish [1]	950 µg/l
EC50 - Crustacea [1]	300 µg/l
Partition coefficient n-octanol/water (Log Pow)	5.3

2-Hexyl-(E)-cinnamaldehyde (165184-98-5)	
Partition coefficient n-octanol/water (Log Kow)	5.3 from ECHA
Partition coefficient n-octanol/water (Log Pow)	5.3 from ECHA

Vanillin (121-33-5)	
LC50 - Fish [1]	83.7 (57 – 123) mg/l
EC50 - Crustacea [1]	36.79 mg/l
EC50 72h - Algae [1]	120 mg/l
Partition coefficient n-octanol/water (Log Pow)	1.17

#### 12.2. Persistence and degradability

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Persistence and degradability	No additional information available

#### 12.3. Bioaccumulative potential

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Bioaccumulative potential	No additional information available

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

HEXAMETHYLINDANOPYRAN (1222-05-5)	
Partition coefficient n-octanol/water (Log Pow)	5.3

2-Hexyl-(E)-cinnamaldehyde (165184-98-5)	
Partition coefficient n-octanol/water (Log Pow)	5.3 from ECHA
Partition coefficient n-octanol/water (Log Kow)	5.3 from ECHA

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Vanillin (121-33-5)	
Partition coefficient n-octanol/water (Log Pow)	1.17

### 12.4. Mobility in soil

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Mobility in soil	No additional information available

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

HEXAMETHYLINDANOPYRAN (1222-05-5)	
Partition coefficient n-octanol/water (Log Pow)	5.3

2-Hexyl-(E)-cinnamaldehyde (165184-98-5)	
Partition coefficient n-octanol/water (Log Pow)	5.3 from ECHA
Partition coefficient n-octanol/water (Log Kow)	5.3 from ECHA

Vanillin (121-33-5)	
Partition coefficient n-octanol/water (Log Pow)	1.17

### 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.

## SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
<b>14.1. UN number</b>		
3082	3082	3082
<b>14.2. Proper Shipping Name</b>		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.
<b>14.3. Transport hazard class(es)</b>		
9	9	9
		
<b>14.4. Packing group</b>		
III	III	III



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According to SANS 10234:2019 and SANS 11014:2010

SANS	IMDG	IATA
<b>14.5. Environmental hazards</b>		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

### 14.6. Special precautions for user

#### SANS

Special provisions (SANS)	: 179, 274, 331, 335
Limited quantities (SANS)	: 5 L
Limited quantities (SANS)	: 5 L
Packagings, large packagings and IBCs Packing instructions (SANS)	: P001, IBC03, LP01
Packagings, large packagings and IBCs Special packing instructions (SANS)	: PP1
Portable tank and bulk containers instructions (SANS)	: T4
Portable tank and bulk container special provisions (SANS)	: TP1, TP29

#### IMDG

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A

#### IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L

### 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	: 31/03/2021
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According to SANS 10234:2019 and SANS 11014:2010

Full text of H-statements	
H226	Flammable liquid and vapour.
H227	Combustible liquid
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.
H319	Causes serious eye irritation.
H320	Causes eye irritation
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
H413	May cause long lasting harmful effects to aquatic life.

Safety Data Sheet (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.