

## SAFETY DATA SHEET

In accordance with GHS Regulation

Issue Date: 11 SEP 2024

### SECTION 1. Identification of the Material and Supplier

#### 1.1 Product identifier

Code : XA52745  
Name : Citronella Fragrance

#### 1.2 Recommended use of the chemical and restrictions on use

Recommended use : For industrial use only.  
Restrictions on use : Concentrated aromatic raw materials. Not for personal use.

#### 1.3 Supplier's details

Company Name : Ingredient Innovations Pty Ltd  
4/8 Lindsay Road  
Lonsdale 5160  
SA  
Australia  
Telephone Number : +61 8 7082 0668  
Fax Number :  
E-mail address of competent person responsible for the SDS : info@ingredientinnovations.com.au

#### 1.4 Emergency telephone number

In case of emergency : +61 8 7082 0668 0900 to 1700 ACST (+9:30 UTC)

### SECTION 2. Hazards Identification

#### 2.1 Classification of substance or mixture

Flammable Liquids (Category 4)  
Skin Corrosion/Irritation (Category 2)  
Hazardous to the Aquatic Environment Acute (Category 2)  
Hazardous to the Aquatic Environment Chronic (Category 2)  
Respiratory-Sensitization (Category 1)  
Skin-Sensitization (Category 1)  
Aspiration Hazard (Category 1)

#### 2.2 GHS Label elements, including precautionary statements

Hazard pictogram(s)



Signal word : DANGER  
Hazard statement(s) : H227 Combustible liquid  
H315 Causes skin irritation.  
H401 Toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H304 May be fatal if swallowed and enters airways.

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Precautionary Statement(s) : P264 Wash ... thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P501 Dispose of contents/container to ...  
 P273 Avoid release to the environment.  
 P391 Collect spillage.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P285 In case of inadequate ventilation wear respiratory protection.  
 P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P331 Do NOT induce vomiting.  
 P405 Store locked up.  
 P362 Take off contaminated clothing and wash before reuse.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

### 2.3 Other hazards which do not result in classification

None

## SECTION 3: Composition/Information on Ingredients

### 3.1 Substances

Not Applicable, mixture

### 3.2 Mixtures

EC No.	CAS No.	Name	GHS Classification	%[weight]
226-394-6	5392-40-5	3,7-dimethyl-2,6-octadienal	SCI 2 (H315), SS 1 (H317)	>30.0 <=60.0
232-433-8	68647-72-3	orange terpenes	FL 3 (H226), AH 1 (H304), SCI 2 (H315), C2 (H411)	>=10.0 <=30.0
250-954-9	32210-23-4 or 104-05-2	(4-tert-butylcyclohexyl) acetate	SCI 3 (H316), EH A2 (H401), C2 (H411)	>0.0 <10.0
202-983-3	101-86-0	2-(phenylmethylidene)octanal	ATO 5 (H303), EH A2 (H401), C2 (H411), SS 1 (H317)	>0.0 <10.0
	68917-71-5	citrus terpenes	FL 3 (H226), ATO 4 (H302), ATD 4 (H312), SCI 2 (H315), ATI 4 (H332), SS 1 (H317), RES 1 (H334), EDI 2 (H319)	>0.0 <10.0

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EC No.	CAS No.	Name	GHS Classification	%[weight]
233-732-6	10339-55-6	Ethyl Linalool	FL 4 (H227), SCI 3 (H316)	>0.0 <10.0
225-582-5	4940-11-8	3-hydroxy-2-ethyl-4H-pyran-4-one	ATO 4 (H302)	>0.0 <10.0
201-134-4	78-70-6	3,7-dimethylocta-1,6-dien-3-ol	SCI 2 (H315), EDI 2A (H319), SS 1 (H317)	>0.0 <10.0
289-753-6	8000-29-1 or 89998-15-2	Citronella Oil	SCI 2 (H315), STO-SE 3 (H335)	>0.0 <10.0
203-375-0	106-22-9 or 1335- 43-9	3,7-dimethyloct-6-en-1-ol	SCI 2 (H315), EDI 2A (H319), SS 1 (H317)	>0.0 <10.0
214-946-9	1222-05-5	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8- hexamethylcyclopenta(g)-2-benzopyran	EH A1 (H400), C2 (H411)	>0.0 <10.0
201-828-7	88-41-5	(2-tert-butylcyclohexyl) acetate	FL 4 (H227), ATO 5 (H303), SCI 3 (H316), EH A2 (H401), C2 (H411)	>0.0 <10.0
207-431-5	470-82-6	1,3,3-trimethyl-2- oxabicyclo[2.2.2]octane	FL 3 (H226), ATO 5 (H303), SCI 3 (H316), EH A3 (H402), C3 (H412)	>0.0 <10.0
203-341-5	105-87-3	[(2E)-3,7-dimethylocta-2,6-dienyl] acetate	SCI 3 (H316), EH A2 (H401), C2 (H411)	>0.0 <10.0
203-423-0	106-68-3	octan-3-one	FL 3 (H226), SCI 3 (H316), EH A3 (H402)	>0.0 <10.0
253-617-4	37677-14-8	Isohexenyltetrahydrobenzaldehyde	SCI 3 (H316), EH A2 (H401), C2 (H411)	>0.0 <10.0
	128-37-0	2,6-ditert-butyl-4-methylphenol	SCI 3 (H316), EH A2 (H401), C2 (H411)	>0.0 <10.0
204-262-9	118-58-1	benzyl 2-hydroxybenzoate	ATO 5 (H303), EH A2 (H401), C2 (H411), SS 1 (H317)	>0.0 <10.0
205-527-1	142-19-8	prop-2-enyl heptanoate	FL 4 (H227), ATO 4 (H302), ATD 3 (H311), SCI 2 (H315), EDI 2A (H319), EH A1 (H400)	>0.0 <10.0
204-116-4	115-95-7	3,7-dimethylocta-1,6-dien-3-yl acetate	FL 4 (H227), EH A3 (H402)	>0.0 <10.0

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EC No.	CAS No.	Name	GHS Classification	%[weight]
256-430-4	43052-87-5 or 24920-09-0	1-(2,6,6-trimethyl-1-cyclohex-2-enyl)but-3-en-1-one	ATO 4 (H302), SCI 3 (H316), SS 1 (H317)	>0.0 <10.0

### SECTION 4: First Aid Measures

#### 4.1 Description of first aid measures

- In case of Ingestion : Do NOT induce vomiting.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- In case of Eye Contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Contact a physician if irritation persists
- In case of inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- In case of Skin Contact : Take off contaminated clothing and wash before reuse.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.
- General Advice : IF exposed or concerned or if you feel unwell: Consult a doctor/physician

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

- Acute Or Delayed Symptoms : The most important known symptoms (if any) and its effects are described in the labelling (see section 2.2) and/or in section 11
- Chronic Exposure : No further information available on the product itself

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

- Immediate medical attention : IF exposed or concerned or if you feel unwell: Consult a doctor/physician  
Treat symptomatically.

### SECTION 5: Fire Fighting Measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Foam  
Dry agent (powder)
- Unsuitable extinguishing media : Coarse water spray(jets)  
Fine water spray (fog)

#### 5.2 Special hazards arising from the chemical

- Hazardous combustion products : Chemical must be prevented from entering drains or watercourses

#### 5.3 Special protective actions for fire-fighters

- Special protective equipment for fire-fighters : Breathing apparatus is required
- Hazchem Code : 3Z

### SECTION 6: Accidental Release Measures

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

#### 6.1.1 For non-emergency personnel

- Protective equipment : Use personal protective equipment.  
Avoid contact with skin and eyes and inhalation of its vapours or smoke.  
For personal protection see section 8.
- Emergency procedures : Consult an expert.  
Evacuate personnel to safe areas.  
Remove all ignition sources and ventilate area.

#### 6.1.2 For emergency responders

- Protective equipment : Use personal protective equipment.  
Avoid contact with skin and eyes and inhalation of its vapours or smoke.  
For personal protection see section 8.
- Emergency procedures : Remove all ignition sources and ventilate area.  
Evacuate personnel to safe areas.  
Avoid dust formation. Avoid breathing vapours, mist or gas.

### 6.2 Environmental precautions

- Environmental Precautions : Should not be released into the environment.  
Keep contained to prevent contamination of drains, soil or ground water.

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

- To contain a spill
- Methods and Suitable materials for spill containment : Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash).
- Cleaning up : Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

- Measures to prevent fire : Use only in a well-ventilated area.  
: Keep away from ignition sources and naked flames.  
Use flameproof electrical equipment and spark-reduced tools.
- Measures to protect the environment : Dispose of rinse water in accordance with local and national regulations.
- Advice on general occupational hygiene : Follow good manufacturing practices for housekeeping and personal hygiene.  
Wash any exposed skin immediately after chemical contact, before breaks and meals, and at the end of the each work period. Contaminated clothing and shoes should be thoroughly cleaned before reuse.

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

- Technical measures and storage conditions : Keep container closed when not in use.  
Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances. Protect container from physical damage.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

- 3,7-dimethyl-2,6-octadienal (CAS: 5392-40-5) : No data Available
- orange terpenes (CAS: 68647-72-3) : No data Available

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(4-tert-butylcyclohexyl) acetate (CAS: 32210-23-4 or 104-05-2)	: No data Available
2-(phenylmethylidene)octanal (CAS: 101-86-0)	: No data Available
citrus terpenes (CAS: 68917-71-5)	: No data Available
Ethyl Linalool (CAS: 10339-55-6)	: No data Available
3-hydroxy-2-ethyl-4H-pyran-4-one (CAS: 4940-11-8)	: No data Available
3,7-dimethylocta-1,6-dien-3-ol (CAS: 78-70-6)	: No data Available
Citronella Oil (CAS: 8000-29-1 or 89998-15-2)	: No data Available
3,7-dimethyloct-6-en-1-ol (CAS: 106-22-9 or 1335-43-9)	: No data Available
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta(g)-2-benzopyran (CAS: 1222-05-5)	: No data Available
(2-tert-butylcyclohexyl) acetate (CAS: 88-41-5)	: No data Available
1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane (CAS: 470-82-6)	: No data Available
[(2E)-3,7-dimethylocta-2,6-dienyl] acetate (CAS: 105-87-3)	: No data Available
octan-3-one (CAS: 106-68-3)	: No data Available
Isohexenyltetrahydrobenzaldehyde (CAS: 37677-14-8)	: No data Available
2,6-ditert-butyl-4-methylphenol (CAS: 128-37-0)	: No data Available
benzyl 2-hydroxybenzoate (CAS: 118-58-1)	: No data Available
prop-2-enyl heptanoate (CAS: 142-19-8)	: No data Available
3,7-dimethylocta-1,6-dien-3-yl acetate (CAS: 115-95-7)	: No data Available
1-(2,6,6-trimethyl-1-cyclohex-2-enyl)but-3-en-1-one (CAS: 43052-87-5 or 24920-09-0)	: No data Available

### 8.2 Exposure controls

Eye Protection	: Avoid eye contact. Use safety glasses with side shield or goggles. Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.
Skin Protection	: Avoid skin contact. Wear clothing that provides comprehensive protection to the skin. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory Protection	: Avoid breathing vapour. Wear respiratory protection
Hand Protection	: Avoid skin contact. Use chemically resistant gloves.
General Protection	: Follow good manufacturing practices for personal hygiene. Wash any exposed skin immediately after chemical contact, before breaks and meals, and at the end of the each work period.
Engineering Controls	: Ensure that eyewash stations and safety showers are proximal to the workstation location. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
8.2.3 Environmental exposure controls	: Avoid discharge into the environment

## SECTION 9: Physical and Chemical Properties

### Physical and Chemical Properties

Appearance	: Liquid
Aroma	: Citrus

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Odour Threshold	: Not Determined
pH	: Not Determined
Melting point / freezing point	: Not Determined
Initial boiling point and boiling range	: Not Determined
Flash Point (Closed cup test)	: 93.0 °C
Evaporation rate	: Not Determined
Flammability (solid, gas)	: Not Determined
Upper/lower flammability or explosive limits	: Not Determined
Vapour Pressure	: Not Determined
Vapour Density	: Not Determined
Relative density	: Not Determined
Partition coefficient: n-octanol/water	: Not Determined
Auto-ignition temperature	: Not Determined
Decomposition temperature	: Not Determined
Viscosity	: Not Determined
Explosive properties	: Not Determined
Oxidising properties	: Not Determined

### SECTION 10: Stability and Reactivity

#### 10.1 Reactivity

Reactivity hazards : No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Chemical Stability : Stable under ordinary conditions of use and storage.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

#### 10.4 Conditions to avoid

Conditions to Avoid : Heat, flames, ignition sources and incompatibles.

#### 10.5 Incompatible materials

Incompatibilities : None known.

#### 10.6 Hazardous decomposition products

Hazardous Decomposition Products : Stable under ordinary conditions of use and storage.

### SECTION 11: Toxicological Information

#### 11.1 Information on toxicological effects

This mixture has not been tested as a whole for health effects

#### Information about hazardous ingredients in the mixture:

EC No.	CAS No.	Name	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation
226-394-6	5392-40-5	3,7-dimethyl-2,6-octadienal	Not Determined	Not Determined	Not Determined

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EC No.	CAS No.	Name	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation
232-433-8	68647-72-3	orange terpenes	Not Determined	Not Determined	Not Determined
250-954-9	32210-23-4 or 104-05-2	(4-tert-butylcyclohexyl) acetate	Not Determined	Not Determined	Not Determined
202-983-3	101-86-0	2-(phenylmethylidene)octanal	Not Determined	Not Determined	Not Determined
	68917-71-5	citrus terpenes	Not Determined	Not Determined	Not Determined
233-732-6	10339-55-6	Ethyl Linalool	Not Determined	Not Determined	Not Determined
225-582-5	4940-11-8	3-hydroxy-2-ethyl-4H-pyran-4-one	Not Determined	Not Determined	Not Determined
201-134-4	78-70-6	3,7-dimethylocta-1,6-dien-3-ol	Not Determined	Not Determined	Not Determined
289-753-6	8000-29-1 or 89998-15-2	Citronella Oil	Not Determined	Not Determined	Not Determined
203-375-0	106-22-9 or 1335-43-9	3,7-dimethyloct-6-en-1-ol	Not Determined	Not Determined	Not Determined
214-946-9	1222-05-5	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta(g)-2-benzopyran	Not Determined	Not Determined	Not Determined
201-828-7	88-41-5	(2-tert-butylcyclohexyl) acetate	Not Determined	Not Determined	Not Determined
207-431-5	470-82-6	1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane	Not Determined	Not Determined	Not Determined
203-341-5	105-87-3	[(2E)-3,7-dimethylocta-2,6-dienyl] acetate	Not Determined	Not Determined	Not Determined
203-423-0	106-68-3	octan-3-one	Not Determined	Not Determined	Not Determined
253-617-4	37677-14-8	Isohexenyltetrahydrobenzaldehyde	Not Determined	Not Determined	Not Determined
	128-37-0	2,6-ditert-butyl-4-methylphenol	Not Determined	Not Determined	Not Determined
204-262-9	118-58-1	benzyl 2-hydroxybenzoate	Not Determined	Not Determined	Not Determined
205-527-1	142-19-8	prop-2-enyl heptanoate	Not Determined	Not Determined	Not Determined
204-116-4	115-95-7	3,7-dimethylocta-1,6-dien-3-yl acetate	Not Determined	Not Determined	Not Determined
256-430-4	43052-87-5 or 24920-09-0	1-(2,6,6-trimethyl-1-cyclohex-2-enyl)but-3-en-1-one	Not Determined	Not Determined	Not Determined



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### SECTION 12: Ecological Information

#### 12.1 Toxicity

Environmental Toxicity : No specific ecological information is available for this product. Avoid contaminating the soil as well as surface and ground water.

#### 12.2 Persistence and degradability

Degradability : No specific ecological information is available for this product. Avoid contaminating the soil as well as surface and ground water.

#### 12.3 Bioaccumulative potential

Bioaccumulative potential : No specific ecological information is available for this product. Avoid contaminating the soil as well as surface and ground water.

#### 12.4 Mobility in soil

Mobility in soil : No specific ecological information is available for this product. Avoid contaminating the soil as well as surface and ground water.

#### 12.5 Results of PBT and vPvB assessment

PBT or a vPvB assessment : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Other adverse effects

: None

### SECTION 13: Disposal Considerations

Disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### SECTION 14: Transport Information

	ADR/RID	IMDG	ICAO/IATA
14.1 UN Number	3082	3082	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARODUS SUBSTANCE, LIQUID, n.o.s.	ENVIRONMENTALLY HAZARODUS SUBSTANCE, LIQUID, n.o.s.	Environmentally hazardous substance, liquid, n.o.s
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	III	III
	Tunnel Rrestriction Code: (E) Digit Of Hazard Label: 9 Classification Code: M6	EmS: F-A, S-F	
14.5 Environmental hazards	Yes	Marine pollutant: Yes	Not Applicable
14.6 Special precautions for user	None	None	None

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	ADR/RID	IMDG	ICAO/IATA
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	None	IBC03	None

### SECTION 15: Regulatory Information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### 15.1.1 Classification for mixtures according to GHS Regulation

No Further data available

##### 15.1.2 National Regulations

No further information.

### SECTION 16: Other Information

#### Revisions

Revision 1(Date :11-Sep-2024)

#### Abbreviations and acronyms

- AH 1 - Aspiration Hazard Category 1
- ATD 3 - Acute Toxicity-DERMAL Category 3
- ATD 4 - Acute Toxicity-DERMAL Category 4
- ATI 4 - Acute Toxicity-INHALATION Category 4
- ATO 4 - Acute Toxicity-ORAL Category 4
- ATO 5 - Acute Toxicity-ORAL Category 5
- C2 - Hazardous to the Aquatic Environment Chronic Category 2
- C3 - Hazardous to the Aquatic Environment Chronic Category 3
- EDI 2 - Serious Eye Damage/Irritation Category 2
- EDI 2A - Serious Eye Damage/Irritation Category 2A
- EH A1 - Hazardous to the Aquatic Environment Acute Category 1
- EH A2 - Hazardous to the Aquatic Environment Acute Category 2
- EH A3 - Hazardous to the Aquatic Environment Acute Category 3
- FL 3 - Flammable Liquids Category 3
- FL 4 - Flammable Liquids Category 4
- RES 1 - Respiratory-Sensitization Category 1
- SCI 2 - Skin Corrosion/Irritation Category 2
- SCI 3 - Skin Corrosion/Irritation Category 3
- SS 1 - Skin-Sensitization Category 1
- STO-SE 3 - Specific Target Organ Toxicity(Single Exposure) Category 3
- 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.
- H311 - Toxic in contact with skin.
- H312 - Harmful in contact with skin.
- H315 - Causes skin irritation.

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- H316 - Causes mild skin irritation
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H400 - Very toxic to aquatic life.
- H401 - Toxic to aquatic life.
- H402 - Harmful to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

### Further Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Ingredient Innovations Ltd Pty be liable for any claims, losses, or damages.

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