



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Air Re-Fresher Odor Eliminator (Whole Car) Summer Breeze Scent G166 [G16602]

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

##### Identified uses

Automotive.

#### 1.3. Details of the supplier of the safety data sheet

**Address:** Meguiars United Kingdom Limited, 3 Lamport Court, Heartlands, Daventry, Northants, NN11 8UF  
**Telephone:** +44 (0)870 241 6696  
**E Mail:** info@meguiars.co.uk  
**Website:** www.meguiars.co.uk

#### 1.4. Emergency telephone number

+44 (0)870 241 6696

### SECTION 2: Hazard identification

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

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

##### CLASSIFICATION:

Aerosol, Category 1 - Aerosol 1; H222, H229

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

**2.2. Label elements**

**CLP REGULATION (EC) No 1272/2008**

**SIGNAL WORD**

DANGER.

**Symbols**

GHS02 (Flame) |

**Pictograms**



**HAZARD STATEMENTS:**

H222 Extremely flammable aerosol.  
H229 Pressurised container. may burst if heated.  
H412 Harmful to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS**

**General:**

P102 Keep out of reach of children.

**Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.

**Storage:**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

**Disposal:**

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

**SUPPLEMENTAL INFORMATION:**

**Supplemental Hazard Statements:**

EUH208 Contains LINALYL ACETATE. | linalool. | 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-. | citral. May produce an allergic reaction.

**2.3. Other hazards**

None known.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Not applicable

### 3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propene, 1,3,3,3,-tetrafluoro-,(E)-	(CAS-No.) 29118-24-9	50 - 90	Substance not classified as hazardous
ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319
benzyl benzoate	(CAS-No.) 120-51-4 (EC-No.) 204-402-9	1 - 3	Acute Tox. 4, H302 Aquatic Chronic 2, H411
linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4	< 0.5	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319
OILS, LEMON	(CAS-No.) 8008-56-8	< 0.5	Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1
citral	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6	< 0.5	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Fragrance Ingredient	Trade Secret	< 0.2	Aquatic Acute 1, H400,M=1 Aquatic Chronic 3, H412
LINALYL ACETATE	(CAS-No.) 115-95-7 (EC-No.) 204-116-4	< 0.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	(CAS-No.) 57378-68-4 (EC-No.) 260-709-8	< 0.04	Acute Tox. 4, H302 Skin Sens. 1A, H317 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1

Please see section 16 for the full text of any H statements referred to in this section

#### Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6	(C >= 50%) Eye Irrit. 2, H319
linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4	(C >= 30%) Eye Irrit. 2, H319

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**

Wash with soap and water. If you feel unwell, get medical attention.

**Eye contact**

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**If swallowed**

Rinse mouth. If you feel unwell, get medical attention.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures**

**5.1. Extinguishing media**

Use a fire fighting agent suitable for the surrounding fire.

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

Closed containers exposed to heat from fire may build pressure and explode.

**Hazardous Decomposition or By-Products**

Substance

Carbon monoxide

Carbon dioxide.

Hydrogen Fluoride

Condition

During combustion.

During combustion.

During combustion.

**5.3. Advice for fire-fighters**

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**SECTION 6: Accidental release measures**

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

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

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities.

Dispose of collected material as soon as possible.

#### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid inhalation of thermal decomposition products. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

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

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store away from heat. Store away from acids. Store away from oxidising agents.

### 7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
ethanol	64-17-5	UK HSC	TWA:1920 mg/m <sup>3</sup> (1000 ppm)	

UK HSC : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

**Recommended monitoring procedures:**Information on recommended monitoring procedures can be obtained from UK HSC

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Provide appropriate local exhaust when product is heated. Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full face shield.

Indirect vented goggles.

*Applicable Norms/Standards*

Use eye/face protection conforming to EN 166

**Skin/hand protection**

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended:

<b>Material</b>	<b>Thickness (mm)</b>	<b>Breakthrough Time</b>
Nitrile rubber.	No data available	No data available

*Applicable Norms/Standards*

Use gloves tested to EN 374

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

During heating: Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours

For questions about suitability for a specific application, consult with your respirator manufacturer.

*Applicable Norms/Standards*

Use a respirator conforming to EN 140 or EN 136: filter type A

**SECTION 9: Physical and chemical properties**

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

<b>Physical state</b>	Liquid.
<b>Specific Physical Form:</b>	Aerosol
<b>Colour</b>	Clear Colorless
<b>Odor</b>	Sweet Lemon
<b>Odour threshold</b>	No data available.
<b>Melting point/freezing point</b>	No data available.
<b>Boiling point/boiling range</b>	>= -25 °C
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Flammable Limits(LEL)</b>	No data available.
<b>Flammable Limits(UEL)</b>	No data available.
<b>Flash point</b>	>= 14.4 °C
<b>Autoignition temperature</b>	No data available.
<b>Decomposition temperature</b>	No data available.
<b>pH</b>	
<b>Kinematic Viscosity</b>	No data available.
<b>Water solubility</b>	No data available.
<b>Solubility- non-water</b>	No data available.
<b>Partition coefficient: n-octanol/water</b>	No data available.

Vapour pressure	No data available.
Density	0.815 g/ml
Relative density	0.815 [Ref Std:WATER=1]
Relative Vapor Density	No data available.

## 9.2. Other information

### 9.2.2 Other safety characteristics

EU Volatile Organic Compounds	811 g/l [Details:(calculated per Directive 2004/42/EC)]
Evaporation rate	No data available.
Molecular weight	No data available.
Percent volatile	99.5 % weight [Test Method:Estimated]

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Sparks and/or flames.

Heat.

### 10.5 Incompatible materials

Strong oxidising agents.

### 10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

Extreme heat arising from situations such as misuse or equipment failure can generate hydrogen fluoride as a decomposition product.

## SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation**

Simple asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

**Skin contact**

Contact with the skin during product use is not expected to result in significant irritation.

**Eye contact**

Sprayed material may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion**

May cause additional health effects (see below).

**Additional Health Effects:**

**Single exposure may cause target organ effects:**

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

**Additional information:**

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
ethanol	Dermal	Rabbit	LD50 > 15,800 mg/kg
ethanol	Inhalation-Vapour (4 hours)	Rat	LC50 124.7 mg/l
ethanol	Ingestion	Rat	LD50 17,800 mg/kg
benzyl benzoate	Dermal	Rabbit	LD50 4,000 mg/kg
benzyl benzoate	Ingestion	Rat	LD50 1,894 mg/kg
linalool	Dermal	Rabbit	LD50 5,610 mg/kg
linalool	Ingestion	Rat	LD50 2,790 mg/kg
citral	Dermal	Rabbit	LD50 2,250 mg/kg
LINALYL ACETATE	Dermal	Rabbit	LD50 5,610 mg/kg
citral	Ingestion	Rat	LD50 6,800 mg/kg
LINALYL ACETATE	Ingestion	Rat	LD50 > 9,000 mg/kg
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	Ingestion	Mouse	LD50 1,800 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
ethanol	Rabbit	No significant irritation
linalool	Rabbit	Irritant
citral	Rabbit	Irritant



LINALYL ACETATE	Rabbit	Irritant
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**Serious Eye Damage/Irritation**

Name	Species	Value
ethanol	Rabbit	Severe irritant
linalool	Rabbit	Moderate irritant
citral	Rabbit	Severe irritant
LINALYL ACETATE	Rabbit	Severe irritant

**Skin Sensitisation**

Name	Species	Value
ethanol	Human	Not classified
linalool	Mouse	Sensitising
citral	Human and animal	Sensitising
LINALYL ACETATE	Mouse	Sensitising
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	Human and animal	Sensitising

**Respiratory Sensitisation**

For the component/components, either no data is currently available or the data is not sufficient for classification.

**Germ Cell Mutagenicity**

Name	Route	Value
ethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
ethanol	In vivo	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
ethanol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
ethanol	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
ethanol	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	prematuring & during gestation

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
ethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
ethanol	Inhalation	central nervous system depression	Not classified	Human and	NOAEL not available	

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				animal		
ethanol	Ingestion	central nervous system depression	Not classified	Multiple animal species	NOAEL not available	
ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
linalool	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
citral	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
LINALYL ACETATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
ethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
ethanol	Inhalation	hematopoietic system   immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
ethanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days

**Aspiration Hazard**

For the component/components, either no data is currently available or the data is not sufficient for classification.

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

**11.2. Information on other hazards**

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

**SECTION 12: Ecological information**

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

**12.1. Toxicity**

No product test data available.

Material	CAS #	Organism	Type	Exposure	Test endpoint	Test result
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9	Common Carp	Experimental	96 hours	LC50	>117 mg/l
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9	Green algae	Experimental	72 hours	EC50	>170 mg/l
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9	Water flea	Experimental	48 hours	EC50	>160 mg/l
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9	Green algae	Experimental	72 hours	EC10	>170 mg/l

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ethanol	64-17-5	Fathead minnow	Experimental	96 hours	LC50	14,200 mg/l
ethanol	64-17-5	Fish other	Experimental	96 hours	LC50	11,000 mg/l
ethanol	64-17-5	Green algae	Experimental	72 hours	EC50	275 mg/l
ethanol	64-17-5	Water flea	Experimental	48 hours	LC50	5,012 mg/l
ethanol	64-17-5	Green algae	Experimental	72 hours	ErC10	11.5 mg/l
ethanol	64-17-5	Water flea	Experimental	10 days	NOEC	9.6 mg/l
benzyl benzoate	120-51-4	Activated sludge	Experimental	3 hours	EC50	>10,000 mg/l
benzyl benzoate	120-51-4	Green Algae	Experimental	72 hours	EC50	0.475 mg/l
benzyl benzoate	120-51-4	Rainbow trout	Experimental	96 hours	LC50	1.4 mg/l
benzyl benzoate	120-51-4	Scud	Experimental	96 hours	LC50	4.8 mg/l
benzyl benzoate	120-51-4	Green Algae	Experimental	72 hours	NOEC	0.247 mg/l
citral	5392-40-5	Activated sludge	Experimental	30 minutes	EC50	160 mg/l
citral	5392-40-5	Green Algae	Experimental	72 hours	EC50	5 mg/l
citral	5392-40-5	Medaka	Experimental	96 hours	LC50	4.1 mg/l
citral	5392-40-5	Water flea	Experimental	48 hours	EC50	6.8 mg/l
citral	5392-40-5	Green algae	Experimental	72 hours	NOEC	3.1 mg/l
citral	5392-40-5	Water flea	Experimental	21 days	NOEC	1 mg/l
linalool	78-70-6	Activated sludge	Experimental	3 hours	NOEC	100 mg/l
linalool	78-70-6	Activated sludge	Experimental	30 minutes	EC50	400 mg/l
linalool	78-70-6	Bacteria	Experimental	30 minutes	EC50	1,000 mg/l
linalool	78-70-6	Green Algae	Experimental	72 hours	EC50	>34 mg/l
linalool	78-70-6	Rainbow trout	Experimental	96 hours	LC50	27.8 mg/l
linalool	78-70-6	Water flea	Experimental	48 hours	EC50	20 mg/l
linalool	78-70-6	Green Algae	Experimental	72 hours	NOEC	5.6 mg/l
linalool	78-70-6	Water flea	Experimental	21 days	NOEC	9.5 mg/l
OILS, LEMON	8008-56-8	Fathead minnow	Experimental	96 hours	LC50	0.702 mg/l
Fragrance Ingredient	Trade Secret	Green algae	Experimental	72 hours	EC50	>4.6 mg/l
Fragrance Ingredient	Trade Secret	Water flea	Experimental	48 hours	EC50	2 mg/l
Fragrance Ingredient	Trade Secret	Zebra Fish	Experimental	96 hours	LC50	0.117 mg/l
Fragrance Ingredient	Trade Secret	Green algae	Experimental	72 hours	EC10	0.255 mg/l
LINALYL ACETATE	115-95-7	Activated sludge	Experimental	30 minutes	EC20	>1,000 mg/l
LINALYL ACETATE	115-95-7	Common Carp	Laboratory	96 hours	LC50	11 mg/l
LINALYL ACETATE	115-95-7	Green algae	Laboratory	72 hours	EC50	16 mg/l

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LINALYL ACETATE	115-95-7	Water flea	Laboratory	48 hours	EC50	6.2 mg/l
LINALYL ACETATE	115-95-7	Green algae	Laboratory	72 hours	NOEC	1.2 mg/l
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	Activated sludge	Estimated	3 hours	EC50	241 mg/l
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	Green Algae	Estimated	72 hours	EC50	4.54 mg/l
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	Medaka	Estimated	96 hours	LC50	0.97 mg/l
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	Green Algae	Estimated	72 hours	NOEC	0.883 mg/l
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	Water flea	Estimated	21 days	NOEC	0.35 mg/l

**12.2. Persistence and degradability**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9	Experimental Photolysis		Photolytic half-life (in air)	34.4 days (t 1/2)	Non-standard method
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9	Experimental Biodegradation	28 days	BOD	0 %BOD/COD	OECD 301D - Closed bottle test
ethanol	64-17-5	Experimental Biodegradation	14 days	BOD	89 % BOD/ThBOD	OECD 301C - MITI test (I)
benzyl benzoate	120-51-4	Estimated Photolysis		Photolytic half-life (in air)	4.3 days (t 1/2)	Non-standard method
benzyl benzoate	120-51-4	Experimental Biodegradation	28 days	BOD	94 % weight	OECD 301F - Manometric respirometry
citral	5392-40-5	Experimental Biodegradation	28 days	BOD	>90 % BOD/ThBOD	Non-standard method
linalool	78-70-6	Experimental Biodegradation	28 days	BOD	80 % weight	OECD 301C - MITI test (I)
OILS, LEMON	8008-56-8	Estimated Biodegradation	14 days	BOD	98 % weight	OECD 301C - MITI test (I)
Fragrance Ingredient	Trade Secret	Estimated Photolysis		Photolytic half-life (in air)	12 hours (t 1/2)	Non-standard method
Fragrance Ingredient	Trade Secret	Experimental Biodegradation	28 days	BOD	70 % BOD/ThBOD	OECD 301F - Manometric respirometry
LINALYL ACETATE	115-95-7	Estimated Photolysis		Photolytic half-life (in air)	3.3 hours (t 1/2)	Non-standard method
LINALYL ACETATE	115-95-7	Experimental Hydrolysis		Hydrolytic half-life	< 1 days (t 1/2)	Non-standard method
LINALYL ACETATE	115-95-7	Experimental Biodegradation	28 days	BOD	76 % BOD/ThBOD	OECD 301F - Manometric respirometry
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	Estimated Hydrolysis		Hydrolytic half-life	332 days (t 1/2)	Non-standard method
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	Estimated Biodegradation	28 days	BOD	0 % BOD/ThBOD	OECD 301C - MITI test (I)

**12.3 : Bioaccumulative potential**

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9	Experimental Bioconcentration		Log Kow	1.6	Non-standard method
ethanol	64-17-5	Experimental Bioconcentration		Log Kow	-0.35	Non-standard method
benzyl benzoate	120-51-4	Estimated Bioconcentration		Bioaccumulation factor	25	Estimated: Bioconcentration factor

**Air Re-Fresher Odor Eliminator (Whole Car) Summer Breeze Scent G166 [G16602]**

citral	5392-40-5	Experimental Bioconcentration		Log Kow	2.76	Non-standard method
linalool	78-70-6	Experimental Bioconcentration		Log Kow	2.97	Non-standard method
OILS, LEMON	8008-56-8	Estimated Bioconcentration		Bioaccumulation factor	2100	Estimated: Bioconcentration factor
Fragrance Ingredient	Trade Secret	Experimental Bioconcentration		Log Kow	3.19	Non-standard method
LINALYL ACETATE	115-95-7	Experimental Bioconcentration		Log Kow	3.9	Non-standard method
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	Estimated BCF-Carp	60 days	Bioaccumulation factor	310	OECD 305E - Bioaccumulation flow-through fish test

**12.4. Mobility in soil**

Material	Cas No.	Test type	Study Type	Test result	Protocol
benzyl benzoate	120-51-4	Estimated Mobility in Soil	Koc	1,100 l/kg	Episuite™
Fragrance Ingredient	Trade Secret	Estimated Mobility in Soil	Koc	420 l/kg	Episuite™
LINALYL ACETATE	115-95-7	Estimated Mobility in Soil	Koc	430 l/kg	Episuite™

**12.5. Results of the PBT and vPvB assessment**

This material does not contain any substances that are assessed to be a PBT or vPvB

**12.6. Endocrine disrupting properties**

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. Combustion products will include HF. Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of the manufacturer, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

**EU waste code (product as sold)**

16 05 04\* Gases in pressure containers (including halons) containing dangerous substances

**EU waste code (product container after use)**

15 01 04 Metallic packaging

**SECTION 14: Transportation information**

Not hazardous for transportation.

IMDG: UN1950; Aerosols; 2.1; EMS: F-D, S-U.

ADR: UN1950; Aerosols, 2.1; (D); ADR Classification Code: 5F.

IATA: UN1950; Aerosols, Flammeble; 2.1.

	<b>Ground Transport (ADR)</b>	<b>Air Transport (IATA)</b>	<b>Marine Transport (IMDG)</b>
<b>14.1 UN number</b>	No data available.	No data available.	No data available.
<b>14.2 UN proper shipping name</b>	No data available.	No data available.	No data available.
<b>14.3 Transport hazard class(es)</b>	No data available.	No data available.	No data available.
<b>14.4 Packing group</b>	No data available.	No data available.	No data available.
<b>14.5 Environmental hazards</b>	No data available.	No data available.	No data available.
<b>14.6 Special precautions for user</b>	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
<b>14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code</b>	No data available.	No data available.	No data available.
<b>Control Temperature</b>	No data available.	No data available.	No data available.
<b>Emergency Temperature</b>	No data available.	No data available.	No data available.
<b>ADR Tunnel Code</b>	No data available.	Not applicable.	No data available.
<b>ADR Classification Code</b>	No data available.	No data available.	No data available.
<b>ADR Transport Category</b>	No data available.	No data available.	No data available.
<b>ADR Multiplier</b>	No data available.	No data available.	No data available.
<b>IMDG Segregation Code</b>	No data available.	No data available.	No data available.

<b>Transport not Permitted</b>	No data available.	No data available.	No data available.
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Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **Global inventory status**

Contact manufacturer for more information The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

#### **15.2. Chemical Safety Assessment**

A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended.

## **SECTION 16: Other information**

### **List of relevant H statements**

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container. may burst if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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.

#### **Revision information:**

EU Section 09: pH information information was added.  
Section 1: Product name information was modified.  
Label: CLP Percent Unknown information was deleted.  
Label: CLP Precautionary - Prevention information was modified.  
List of sensitizers information was modified.  
Section 03: Composition table % Column heading information was added.  
Section 3: Composition/ Information of ingredients table information was modified.  
Section 03: SCL table information was added.  
Section 03: Substance not applicable information was added.  
Section 4: First aid for skin contact information information was modified.  
Section 04: Information on toxicological effects information was modified.  
Section 5: Hazardous combustion products table information was modified.  
Section 7: Conditions safe storage information was modified.  
Section 7: Precautions safe handling information information was modified.

Section 8: glove data value information was modified.  
Section 8: Occupational exposure limit table information was modified.  
Section 8: Personal Protection - Respiratory Information information was modified.  
Section 8: Personal Protection - Skin/body information information was deleted.  
Section 8: Personal Protection - Skin/hand information information was modified.  
Section 8: Skin protection - protective clothing information information was deleted.  
Section 09: Color information was added.  
Section 9: Evaporation Rate information information was deleted.  
Section 9: Explosive properties information information was deleted.  
Section 09: Kinematic Viscosity information information was added.  
Section 9: Melting point information information was modified.  
Section 09: Odor information was added.  
Sections 3 and 9: Odour, colour, grade information information was deleted.  
Section 9: Oxidising properties information information was deleted.  
Section 9: pH information information was deleted.  
Section 9: Property description for optional properties information was modified.  
Section 9: Vapour density value information was added.  
Section 9: Vapour density value information was deleted.  
Section 9: Viscosity information information was deleted.  
Section 11: Acute Toxicity table information was modified.  
Section 11: Carcinogenicity Table information was modified.  
Section 11: Classification disclaimer information was modified.  
Section 11: Germ Cell Mutagenicity Table information was modified.  
Section 11: Health Effects - Inhalation information information was modified.  
Section 11: Health Effects - Skin information information was modified.  
Section 11: No endocrine disruptor information available warning information was added.  
Section 11: Reproductive and/or Developmental Effects text information was deleted.  
Section 11: Reproductive Toxicity Table information was modified.  
Section 11: Serious Eye Damage/Irritation Table information was modified.  
Section 11: Skin Corrosion/Irritation Table information was modified.  
Section 11: Skin Sensitization Table information was modified.  
Section 11: Target Organs - Repeated Table information was modified.  
Section 11: Target Organs - Single Table information was modified.  
Section 12: 12.6. Endocrine Disrupting Properties information was added.  
Section 12: 12.7. Other adverse effects information was modified.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Contact manufacturer for more detail. information was deleted.  
Section 12: Mobility in soil information information was added.  
Section 12: No endocrine disruptor information available warning information was added.  
Section 12: No PBT/vPvB information available warning information was modified.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Bioaccumulative potential information information was modified.  
Section 13: 13.1. Waste disposal note information was modified.  
Section 14 Classification Code – Main Heading information was added.  
Section 14 Classification Code – Regulation Data information was added.  
Section 14 Control Temperature – Main Heading information was added.  
Section 14 Control Temperature – Regulation Data information was added.  
Section 14 Disclaimer Information information was added.  
Section 14 Emergency Temperature – Main Heading information was added.  
Section 14 Emergency Temperature – Regulation Data information was added.  
Section 14 Hazard Class + Sub Risk – Main Heading information was added.  
Section 14 Hazard Class + Sub Risk – Regulation Data information was added.  
Section 14 Hazardous/Not Hazardous for Transportation information was added.  
Section 14 Multiplier – Main Heading information was added.  
Section 14 Multiplier – Regulation Data information was added.  
Section 14 Other Dangerous Goods – Main Heading information was added.



Section 14 Other Dangerous Goods – Regulation Data information was added.  
Section 14 Packing Group – Main Heading information was added.  
Section 14 Packing Group – Regulation Data information was added.  
Section 14 Proper Shipping Name information was added.  
Section 14 Regulations – Main Headings information was added.  
Section 14 Segregation – Regulation Data information was added.  
Section 14 Segregation Code – Main Heading information was added.  
Section 14 Special Precautions – Main Heading information was added.  
Section 14 Special Precautions – Regulation Data information was added.  
Section 14 Transport Category – Main Heading information was added.  
Section 14 Transport Category – Regulation Data information was added.  
Section 14 Transport in bulk – Regulation Data information was added.  
Section 14 Transport in bulk according to Annex II of Marpol and the IBC Code – Main Heading information was added.  
Section 14 Transport Not Permitted – Main Heading information was added.  
Section 14 Transport Not Permitted – Regulation Data information was added.  
Section 14 Tunnel Code – Main Heading information was added.  
Section 14 Tunnel Code – Regulation Data information was added.  
Section 14 UN Number Column data information was added.  
Section 14 UN Number information was added.  
Section 14: Transportation classification information was modified.  
Section 15: Chemical Safety Assessment information was modified.  
Section 15: Regulations - Inventories information was modified.  
Section 16: UK disclaimer information was deleted.

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