



## 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

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

### 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 50°C/122°F.

#### 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.

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

## 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]
Tetrafluoropropene	(CAS-No.) 29118-24-9 (EC-No.) ELINCS 471-480-0 (REACH-No.) 01-0000019758-54	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 Aquatic Acute 1, H400,M=1
HEXANOIC ACID, 2-PROPENYL ESTER	(CAS-No.) 123-68-2 (EC-No.) 204-642-4	< 0.5	Aquatic Acute 1, H400,M=1 Aquatic Chronic 3, H412
LINALYL ACETATE	(CAS-No.) 115-95-7 (EC-No.) 204-116-4	< 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
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
Lemon Oils	(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
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	(CAS-No.) 57378-68-4 (EC-No.) 260-709-8	< 0.1	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**

If exposed, wash with soap and water. If signs/symptoms develop, get medical attention.

#### **Eye contact**

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

#### **If swallowed**

Do not induce vomiting. 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. Exposure to extreme heat can give rise to thermal decomposition.

#### **Hazardous Decomposition or By-Products**

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During combustion.
Carbon dioxide.	During combustion.
Hydrogen Fluoride	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. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, 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. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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. Avoid breathing dust/fume/gas/mist/vapours/spray. 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. 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.

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>Agency</b>	<b>Limit type</b>	<b>Additional comments</b>
citral	5392-40-5	Ireland OELs	TWA(inhalable fraction and vapor)(8 hours):5 ppm	
ethanol	64-17-5	Ireland OELs	STEL(15 minutes):1000 ppm	

Ireland OELs : Ireland. OELs  
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 Indust. Inspect./Ministry (IE)

### **8.2. Exposure controls**

#### **8.2.1. Engineering controls**

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. 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:

Indirect vented goggles.

#### *Applicable Norms/Standards*

Use eye 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:

Material	Thickness (mm)	Breakthrough Time
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:

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use a positive pressure supplied-air respirator.

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>	<i>No data available.</i>
<b>Melting point/freezing point</b>	<i>No data available.</i>
<b>Boiling point/boiling range</b>	>=-25 °C
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Flammable Limits(LEL)</b>	<i>No data available.</i>
<b>Flammable Limits(UEL)</b>	<i>No data available.</i>
<b>Flash point</b>	>=14.4 °C
<b>Autoignition temperature</b>	<i>No data available.</i>

Decomposition temperature	No data available.
pH	
Kinematic Viscosity	No data available.
Water solubility	No data available.
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Vapour pressure	No data available.
Density	0.815 g/ml
Relative density	0.815 [Ref Std: WATER=1]
Relative Vapour 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>
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**

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**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**

No known health effects.

**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
Tetrafluoropropene	Inhalation-Gas (4 hours)	Rat	LC50 > 207,000 ppm
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	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
benzyl benzoate	Ingestion	Rat	LD50 > 2,000 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
Tetrafluoropropene	Rabbit	No significant irritation
ethanol	Rabbit	No significant irritation
benzyl benzoate	Rabbit	Minimal irritation
linalool	Rabbit	Irritant
citral	Rabbit	Irritant
LINALYL ACETATE	Rabbit	Irritant

**Serious Eye Damage/Irritation**

Name	Species	Value
ethanol	Rabbit	Severe irritant
benzyl benzoate	Rabbit	No significant irritation
linalool	Rabbit	Moderate irritant
citral	Rabbit	Severe irritant
LINALYL ACETATE	Rabbit	Severe irritant

**Skin Sensitisation**

Name	Species	Value
ethanol	Human	Not classified
benzyl benzoate	Human and animal	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
Tetrafluoropropene	In Vitro	Not mutagenic
Tetrafluoropropene	In vivo	Not mutagenic
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
benzyl benzoate	In Vitro	Not mutagenic

**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
Tetrafluoropropene	Inhalation	Not classified for female reproduction	Rat	NOAEL 20,000 ppm	2 generation

Tetrafluoropropene	Inhalation	Not classified for male reproduction	Rat	NOAEL 20,000 ppm	2 generation
Tetrafluoropropene	Inhalation	Not classified for development	Rat	NOAEL 15,000 ppm	during gestation
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
benzyl benzoate	Ingestion	Not classified for development	Rat	NOAEL 194 mg/kg/day	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 animal	NOAEL not available	
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
Tetrafluoropropene	Inhalation	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 5,000 ppm	91 days
Tetrafluoropropene	Inhalation	hematopoietic system   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system	Not classified	Rat	NOAEL 15,000 ppm	91 days
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
benzyl benzoate	Dermal	skin   endocrine system   nervous system   heart   hematopoietic system   liver   immune system   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 1,250 mg/kg/day	4 weeks

**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
Tetrafluoropropene	29118-24-9	Common Carp	Experimental	96 hours	LC50	>117 mg/l
Tetrafluoropropene	29118-24-9	Green algae	Experimental	72 hours	EC50	>170 mg/l
Tetrafluoropropene	29118-24-9	Water flea	Experimental	48 hours	EC50	>160 mg/l
Tetrafluoropropene	29118-24-9	Green algae	Experimental	72 hours	EC10	>170 mg/l
ethanol	64-17-5	Fathead minnow	Experimental	96 hours	LC50	14,200 mg/l
ethanol	64-17-5	Fish	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	Green algae	Experimental	72 hours	ErC50	0.475 mg/l
benzyl benzoate	120-51-4	Water flea	Experimental	48 hours	EC50	3.09 mg/l
benzyl benzoate	120-51-4	Zebra Fish	Experimental	96 hours	LC50	2.32 mg/l

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benzyl benzoate	120-51-4	Green algae	Experimental	72 hours	NOEC	0.247 mg/l
benzyl benzoate	120-51-4	Water flea	Experimental	21 days	NOEC	0.258 mg/l
benzyl benzoate	120-51-4	Zebra Fish	Experimental	96 hours	NOEC	0.023 mg/l
benzyl benzoate	120-51-4	Activated sludge	Experimental	3 hours	EC50	>10,000 mg/l
citral	5392-40-5	Activated sludge	Experimental	30 minutes	EC50	160 mg/l
citral	5392-40-5	Green algae	Experimental	72 hours	EbC50	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
HEXANOIC ACID, 2-PROPENYL ESTER	123-68-2	Green algae	Experimental	72 hours	EC50	>4.6 mg/l
HEXANOIC ACID, 2-PROPENYL ESTER	123-68-2	Water flea	Experimental	48 hours	EC50	2 mg/l
HEXANOIC ACID, 2-PROPENYL ESTER	123-68-2	Zebra Fish	Experimental	96 hours	LC50	0.117 mg/l
HEXANOIC ACID, 2-PROPENYL ESTER	123-68-2	Green algae	Experimental	72 hours	EC10	0.255 mg/l
Lemon Oils	8008-56-8	Fathead minnow	Analogous Compound	96 hours	LC50	0.702 mg/l
LINALYL ACETATE	115-95-7	Common Carp	Experimental	96 hours	LC50	11 mg/l
LINALYL ACETATE	115-95-7	Green algae	Experimental	72 hours	ErC50	16 mg/l
LINALYL ACETATE	115-95-7	Water flea	Experimental	48 hours	EC50	6.2 mg/l
LINALYL ACETATE	115-95-7	Green algae	Experimental	72 hours	NOEC	1.2 mg/l
LINALYL ACETATE	115-95-7	Activated sludge	Experimental	3 hours	EC50	415 mg/l
linalool	78-70-6	Activated sludge	Experimental	30 minutes	EC50	400 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
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
Tetrafluoropropene	29118-24-9	Experimental Biodegradation	28 days	BOD	0 %BOD/COD	OECD 301D - Closed bottle test
Tetrafluoropropene	29118-24-9	Experimental Photolysis		Photolytic half-life (in air)	34.4 days (t 1/2)	
ethanol	64-17-5	Experimental Biodegradation	14 days	BOD	89 %BOD/ThOD	OECD 301C - MITI test (I)
benzyl benzoate	120-51-4	Experimental Biodegradation	28 days	BOD	94 %BOD/ThOD	EC C.4.D. Manometric Respirom
citral	5392-40-5	Experimental Biodegradation	28 days	BOD	>90 %BOD/ThOD	EC C.4.D. Manometric Respirom
HEXANOIC ACID, 2-PROPENYL ESTER	123-68-2	Experimental Biodegradation	28 days	BOD	70 %BOD/ThOD	OECD 301F - Manometric respirometry
HEXANOIC ACID, 2-PROPENYL ESTER	123-68-2	Estimated Photolysis		Photolytic half-life (in air)	12 hours (t 1/2)	
Lemon Oils	8008-56-8	Analogous Compound Biodegradation	14 days	BOD	98 %BOD/ThOD	OECD 301C - MITI test (I)
LINALYL ACETATE	115-95-7	Experimental Biodegradation	28 days	BOD	76 %BOD/ThOD	OECD 301F - Manometric respirometry
LINALYL ACETATE	115-95-7	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	1 days (t 1/2)	OECD 111 Hydrolysis func of pH
linalool	78-70-6	Experimental Biodegradation	28 days	BOD	80 %BOD/CO D	OECD 301C - MITI test (I)
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	Estimated Biodegradation	28 days	BOD	0 %BOD/ThOD	OECD 301C - MITI test (I)
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)	

**12.3 : Bioaccumulative potential**

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Tetrafluoropropene	29118-24-9	Experimental Bioconcentration		Log Kow	1.6	
ethanol	64-17-5	Experimental Bioconcentration		Log Kow	-0.35	
benzyl benzoate	120-51-4	Modeled Bioconcentration		Bioaccumulation factor	25	Catalogic™
benzyl benzoate	120-51-4	Experimental Bioconcentration		Log Kow	3.97	
citral	5392-40-5	Experimental Bioconcentration		Log Kow	2.76	similar to OECD 107
HEXANOIC ACID, 2-PROPENYL ESTER	123-68-2	Experimental Bioconcentration		Log Kow	3.19	
Lemon Oils	8008-56-8	Modeled Bioconcentration		Bioaccumulation factor	2100	Catalogic™
LINALYL ACETATE	115-95-7	Experimental Bioconcentration		Log Kow	3.9	OECD 107 log Kow shke flask mtd
linalool	78-70-6	Experimental Bioconcentration		Log Kow	2.97	
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	Estimated BCF - Fish	60 days	Bioaccumulation factor	310	OECD305-Bioconcentration

**12.4. Mobility in soil**

Material	Cas No.	Test type	Study Type	Test result	Protocol
benzyl benzoate	120-51-4	Experimental Mobility in Soil	Koc	6,310 l/kg	OECD 121 Estim. of Koc by HPLC

citral	5392-40-5	Modeled Mobility in Soil	Koc	49 l/kg	Episuite™
HEXANOIC ACID, 2-PROPENYL ESTER	123-68-2	Estimated Mobility in Soil	Koc	420 l/kg	Episuite™
LINALYL ACETATE	115-95-7	Modeled Mobility in Soil	Koc	1,039 l/kg	Episuite™
linalool	78-70-6	Modeled Mobility in Soil	Koc	140 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**

	<b>Ground Transport (ADR)</b>	<b>Air Transport (IATA)</b>	<b>Marine Transport (IMDG)</b>
<b>14.1 UN number or ID number</b>	UN1950	UN1950	UN1950
<b>14.2 UN proper shipping name</b>	AEROSOLS	AEROSOLS, FLAMMABLE	AEROSOLS

<b>14.3 Transport hazard class(es)</b>	2.1	2.1	2.1
<b>14.4 Packing group</b>	Not applicable.	Not applicable.	Not applicable.
<b>14.5 Environmental hazards</b>	Not Environmentally Hazardous	Not applicable	Not a Marine Pollutant
<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 Marine Transport in bulk according to IMO instruments</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 Classification Code</b>	5F	Not applicable.	Not applicable.
<b>IMDG Segregation Code</b>	Not applicable.	Not applicable.	NONE

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.

#### **DIRECTIVE 2012/18/EU**

Seveso hazard categories, Annex 1, Part 1

Hazard Categories	Qualifying quantity (tonnes) for the application of	
	Lower-tier requirements	Upper-tier requirements
P3b FLAMMABLE AEROSOLS	5000 (net)	50000 (net)

Seveso named dangerous substances, Annex 1, Part 2

Dangerous Substances	Identifier(s)	Qualifying quantity (tonnes) for the application of
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		Lower-tier requirements	Upper-tier requirements
benzyl benzoate	120-51-4	200	500
ethanol	64-17-5	10	50

**Regulation (EU) No 649/2012**

No chemicals listed

**15.2. Chemical Safety Assessment**

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances 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:**

Label: CLP Classification information was modified.  
 Label: CLP Precautionary - Storage information was modified.  
 Section 3: Composition/ Information of ingredients table information was modified.  
 Section 4: First aid for ingestion (swallowing) information information was modified.  
 Section 4: First aid for skin contact information information was modified.  
 Section 5: Fire - Advice for fire fighters information information was modified.  
 Section 5: Fire - Special hazards information information was modified.  
 Section 6: Accidental release clean-up information information was modified.  
 Section 7: Conditions safe storage information was modified.  
 Section 7: Precautions safe handling information information was modified.  
 Section 8: Appropriate Engineering controls information information was modified.  
 Section 8: Eye/face protection information information was modified.  
 Section 8: Occupational exposure limit table information was modified.  
 OEL Reg Agency Desc information was modified.  
 Section 8: Personal Protection - Respiratory Information information was modified.  
 Section 9: Vapour density value information was modified.  
 Section 11: Acute Toxicity table information was modified.  
 Section 11: Germ Cell Mutagenicity Table information was modified.  
 Section 11: Health Effects - Additional Information information was deleted.  
 Section 11: Health Effects - Ingestion information information was modified.  
 Section 11: Health Effects - Inhalation information information was modified.  
 Section 11: Reproductive Toxicity Table information was modified.  
 Section 11: Serious Eye Damage/Irritation Table information was modified.  
 Section 11: Single exposure may cause standard phrases information was deleted.  
 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 added.  
Section 11: Target Organs - Repeated Table information was deleted.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Mobility in soil information information was modified.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Bioaccumulative potential information information was modified.  
Section 14 Classification Code – Regulation Data information was modified.  
Section 14 Hazard Class + Sub Risk – Regulation Data information was modified.  
Section 14 Hazardous/Not Hazardous for Transportation information was modified.  
Section 14 Multiplier – Main Heading information was deleted.  
Section 14 Multiplier – Regulation Data information was deleted.  
Section 14 Other Dangerous Goods – Regulation Data information was modified.  
Section 14 Packing Group – Regulation Data information was modified.  
Section 14 Proper Shipping Name information was modified.  
Section 14 Segregation – Regulation Data information was modified.  
Section 14 Transport Category – Main Heading information was deleted.  
Section 14 Transport Category – Regulation Data information was deleted.  
Section 14 Marine transport in bulk according to IMO instruments – Main Heading information was modified.  
Section 14 Transport Not Permitted – Main Heading information was deleted.  
Section 14 Transport Not Permitted – Regulation Data information was deleted.  
Section 14 Tunnel Code – Main Heading information was deleted.  
Section 14 Tunnel Code – Regulation Data information was deleted.  
Section 14 UN Number Column data information was modified.  
Section 14 UN Number information was modified.  
Section 14: Transportation classification information was deleted.  
Section 15: Chemical Safety Assessment information was modified.  
Section 15: Seveso Hazard Category Text information was added.  
Section 15: Seveso Substance Text information was added.  
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material.  
information was modified.  
Section 2: No PBT/vPvB information available warning information was added.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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