



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) Black Chrome Scent G1813 [G181302]

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

CLASSIFICATION:

Aerosol, Category 1 - Aerosol 1; H222, H229

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.

PRECAUTIONARY STATEMENTS

General:

P102 Keep out of reach of children.

Prevention:

P210A 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.

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH208 Contains Linalyl Acetate. | Hexylcinnamaldehyde. | 4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde. | linalool. | (R)-p-mentha-1,8-diene. May produce an allergic reaction.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EC No.	REACH Registration No.	% by Wt	Classification
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9			50 - 85	Substance not classified as hazardous
ethanol	64-17-5	200-578-6		10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Linalyl Acetate	115-95-7	204-116-4		0.1 - 0.5	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	203-347-8		< 0.5	Aquatic Chronic 2, H411
Hexylcinnamaldehyde	101-86-0	202-983-3		0.1 - 0.3	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Acute 1, H400,M=1; Aquatic

					Chronic 2, H411
linalool	78-70-6	201-134-4		0.1 - 0.3	Skin Sens. 1B, H317 Skin Irrit. 2, H315; Eye Irrit. 2, H319
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5		0.1 - 0.3	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 - Nota C Asp. Tox. 1, H304
4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	250-863-4		< 0.05	Skin Sens. 1A, H317

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

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

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.

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

For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

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. Seal the container. 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

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 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 ³ (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

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

No chemical protective gloves are required.

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:

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

Appearance

Physical state

Liquid.

Colour

Clear Colorless

Odor

Fresh Odor

Odour threshold

No data available.

pH

Not applicable.

Boiling point/boiling range

-10.6 °C

Melting point

No data available.

Flammability (solid, gas)

Not applicable.

Explosive properties

Not classified

Oxidising properties

Not classified

Flash point

14.4 °C

Autoignition temperature

No data available.

Flammable Limits(LEL)

No data available.

Flammable Limits(UEL)

No data available.

Vapour pressure

No data available.

Relative density	0.81
Water solubility	No data available.
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Evaporation rate	No data available.
Vapour density	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Density	0.81 g/ml

9.2. Other information

EU Volatile Organic Compounds	812 g/l [<i>Details:</i> (calculated per Directive 2004/42/EC)]
Percent volatile	97.1 % weight [<i>Test Method:</i> 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

Heat.

10.5 Incompatible materials

Strong acids.

10.6 Hazardous decomposition products

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

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 3M assessments.

11.1 Information on Toxicological effects**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. 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	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
Linalyl Acetate	Dermal	Rabbit	LD50 5,610 mg/kg
Linalyl Acetate	Ingestion	Rat	LD50 > 9,000 mg/kg
(R)-p-mentha-1,8-diene	Inhalation-Vapour (4 hours)	Mouse	LC50 > 3.14 mg/l
(R)-p-mentha-1,8-diene	Dermal	Rabbit	LD50 > 5,000 mg/kg
(R)-p-mentha-1,8-diene	Ingestion	Rat	LD50 4,400 mg/kg
linalool	Dermal	Rabbit	LD50 5,610 mg/kg
linalool	Ingestion	Rat	LD50 2,790 mg/kg
Hexylcinnamaldehyde	Ingestion	Rat	LD50 3,100 mg/kg
4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	Dermal	Rabbit	LD50 > 5,000 mg/kg
4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
ethanol	Rabbit	No significant irritation
Linalyl Acetate	Rabbit	Irritant
(R)-p-mentha-1,8-diene	Rabbit	Mild irritant
linalool	Rabbit	Irritant
Hexylcinnamaldehyde	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
ethanol	Rabbit	Severe irritant

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Linalyl Acetate	Rabbit	Severe irritant
(R)-p-mentha-1,8-diene	Rabbit	Mild irritant
linalool	Rabbit	Moderate irritant

Skin Sensitisation

Name	Species	Value
ethanol	Human	Not classified
Linalyl Acetate	Mouse	Sensitising
(R)-p-mentha-1,8-diene	Mouse	Sensitising
linalool	Mouse	Sensitising
Hexylcinnamaldehyde	Multiple animal species	Sensitising
4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	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
(R)-p-mentha-1,8-diene	In Vitro	Not mutagenic
(R)-p-mentha-1,8-diene	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
ethanol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
(R)-p-mentha-1,8-diene	Ingestion	Rat	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
(R)-p-mentha-1,8-diene	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	prematuring & during gestation
(R)-p-mentha-1,8-diene	Ingestion	Not classified for development	Multiple animal species	NOAEL 591 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
ethanol	Inhalation	central nervous	May cause drowsiness or	Human	LOAEL 2.6	30 minutes

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		system depression	dizziness		mg/l	
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	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL not available	
ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
Linalyl Acetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
(R)-p-mentha-1,8-diene	Ingestion	nervous system	Not classified		NOAEL Not available	
linalool	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
(R)-p-mentha-1,8-diene	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 75 mg/kg/day	103 weeks
(R)-p-mentha-1,8-diene	Ingestion	liver	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
(R)-p-mentha-1,8-diene	Ingestion	heart endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system muscles nervous system respiratory system	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks

Aspiration Hazard

Name	Value
(R)-p-mentha-1,8-diene	Aspiration hazard

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.

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

Air Re-Fresher Odor Eliminator (Whole Car) Black Chrome Scent G1813 [G181302]

No product test data available.

Material	CAS #	Organism	Type	Exposure	Test endpoint	Test result
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	EC50	>170 mg/l
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	Effect Concentration 10%	>170 mg/l
ethanol	64-17-5	Water flea	Experimental	48 hours	LC50	5,012 mg/l
ethanol	64-17-5	Rainbow trout	Experimental	96 hours	LC50	42 mg/l
ethanol	64-17-5	Algae other	Experimental	96 hours	NOEC	1,580 mg/l
ethanol	64-17-5	Water flea	Experimental	10 days	NOEC	9.6 mg/l
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	Green algae	Experimental	72 hours	EC50	14.58 mg/l
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	Water flea	Experimental	48 hours	EC50	8.09 mg/l
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	Zebra Fish	Experimental	96 hours	LC50	2.13 mg/l
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	Water flea	Experimental	21 days	NOEC	0.088 mg/l
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	Green algae	Experimental	72 hours	Effect Concentration 10%	10.35 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
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
Hexylcinnamaldehyde	101-86-0	Ricefish	Estimated	96 hours	LC50	0.91 mg/l
Hexylcinnamaldehyde	101-86-0	Water flea	Estimated	48 hours	EC50	0.28 mg/l
Hexylcinnamaldehyde	101-86-0	Green Algae	Estimated	72 hours	EC50	>1.5 mg/l
Hexylcinnamaldehyde	101-86-0	Water flea	Estimated	21 days	NOEC	0.014 mg/l
Hexylcinnamaldehyde	101-86-0	Green Algae	Estimated	72 hours	NOEC	0.21 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Water flea	Experimental	48 hours	EC50	0.307 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Green Algae	Experimental	72 hours	EC50	0.32 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Fathead minnow	Experimental	96 hours	LC50	0.702 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Water flea	Experimental	21 days	NOEC	0.08 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Green Algae	Experimental	72 hours	Effect Concentration 10%	0.174 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

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linalool	78-70-6	Water flea	Experimental	48 hours	EC50	20 mg/l
linalool	78-70-6	Water flea	Experimental	21 days	NOEC	9.5 mg/l
linalool	78-70-6	Green Algae	Experimental	72 hours	NOEC	5.6 mg/l
4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Water flea	Estimated	48 hours	EC50	76 mg/l
4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Green Algae	Estimated	72 hours	EC50	25.4 mg/l
4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Fathead minnow	Estimated	96 hours	LC50	11.8 mg/l
4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Green Algae	Estimated	72 hours	NOEC	5.95 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)	Other methods
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)
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	Estimated Photolysis		Photolytic half-life (in air)	1.4 days (t 1/2)	Other methods
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	Experimental Biodegradation	28 days	CO2 evolution	98.1 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Linalyl Acetate	115-95-7	Estimated Photolysis		Photolytic half-life (in air)	3.3 hours (t 1/2)	Other methods
Linalyl Acetate	115-95-7	Experimental Hydrolysis		Hydrolytic half-life	< 1 days (t 1/2)	Other methods
Linalyl Acetate	115-95-7	Experimental Biodegradation	28 days	BOD	76 % BOD/ThBOD	OECD 301F - Manometric respirometry
Hexylcinnamaldehyde	101-86-0	Estimated Photolysis		Photolytic half-life (in air)	7 hours (t 1/2)	Other methods
Hexylcinnamaldehyde	101-86-0	Experimental Biodegradation	28 days	BOD	97 % BOD/ThBOD	OECD 301F - Manometric respirometry
(R)-p-mentha-1,8-diene	5989-27-5	Experimental Biodegradation	14 days	BOD	98 % BOD/ThBOD	OECD 301C - MITI test (I)
linalool	78-70-6	Experimental Biodegradation	28 days	BOD	80 % weight	OECD 301C - MITI test (I)
4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Experimental Biodegradation	28 days	BOD	61 % 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	Other methods
ethanol	64-17-5	Experimental Bioconcentration		Log Kow	-0.35	Other methods
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	Estimated Bioconcentration		Bioaccumulation factor	4.1	Estimated: Bioconcentration factor
Linalyl Acetate	115-95-7	Experimental Bioconcentration		Log Kow	3.9	Other methods
Hexylcinnamaldehyde	101-86-0	Experimental		Log Kow	5.3	Other methods

		Bioconcentration				
(R)-p-mentha-1,8-diene	5989-27-5	Estimated Bioconcentration		Bioaccumulation factor	2100	Estimated: Bioconcentration factor
linalool	78-70-6	Experimental Bioconcentration		Log Kow	2.97	Other methods
4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Estimated Bioconcentration		Log Kow	2.1	Other methods

12.4. Mobility in soil

Please contact manufacturer for more details

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. 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. 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

ADR: UN1950; AEROSOLS, 2.1, Classification code: 5F

IATA: UN1950; AEROSOLS, FLAMMABLE, 2.1.

IMDG: UN1950; AEROSOLS, 2.1, EmS-Code: F-D, S-U

SECTION 15: Regulatory information

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

Carcinogenicity

Ingredient

(R)-p-mentha-1,8-diene

CAS Nbr

5989-27-5

Classification

Gr. 3: Not classifiable

Regulation

International Agency

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.
H226	Flammable liquid and vapour.
H229	Pressurised container. may burst if heated.
H304	May be fatal if swallowed and enters airways.
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.

Revision information:

Section 1: Product name information was modified.

Label: CLP Classification information was modified.

List of sensitizers information was modified.

Section 3: Composition/ Information of ingredients table information was modified.

Section 4: First aid for skin contact 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: Eye/face protection information information was modified.

Section 8: glove data value information was deleted.

Section 8: Occupational exposure limit table information was modified.

OEL Reg Agency Desc 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: Respiratory protection - recommended respirators information information was modified.

Section 8: Skin protection - protective clothing information information was deleted.

Section 8: Skin protection - recommended gloves text information was deleted.

Section 09: Color information was added.

Section 09: Odor information was added.

Sections 3 and 9: Odour, colour, grade information information was deleted.

Section 10: Conditions to avoid physical property information was modified.

Section 10: Materials to avoid physical property information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Carcinogenicity Table information was modified.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Health Effects - Additional Information information was modified.

Section 11: Health Effects - Skin information information was modified.

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: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Biocumulative potential information information was modified.

Section 14: Transportation classification information was modified.

Section 15: Carcinogenicity information information was modified.

Section 15: Regulations - Inventories information was deleted.

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 16: UK disclaimer information was deleted.

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