



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) New Car Scent G164 [G16402]

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

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:

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.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container. may burst if heated.

<=125 ml 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.

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH208 Contains LINALYL ACETATE. | Orange, sweet, extracts. | 4-tert-Butylcyclohexyl acetate. May produce an allergic reaction.

72% of the mixture consists of components of unknown acute oral toxicity.

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 - 85	Substance not classified as hazardous
ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (REACH-No.) 01-2119457610-43	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Fragrance Ingredient	Trade Secret	1 - 5	Substance not classified as hazardous
2,6-xylenol	(CAS-No.) 576-26-1 (EC-No.) 209-400-1	< 1	Acute Tox. 3, H311 Acute Tox. 3, H301 Skin Corr. 1B, H314 Aquatic Chronic 2, H411 Nota C
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	(CAS-No.) 1506-02-1 (EC-No.) 216-133-4	< 1	Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1
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
Orange, sweet, extracts	(CAS-No.) 8028-48-6 (EC-No.) 232-433-8	< 0.5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
4-tert-Butylcyclohexyl acetate	(CAS-No.) 32210-23-4 (EC-No.) 250-954-9	< 0.5	Skin Sens. 1B, H317

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 (REACH-No.) 01-2119457610-43	(C >= 50%) 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 signs/symptoms develop, get medical attention.

Eye contact

No need for first aid is anticipated.

If swallowed

No need for first aid is anticipated.

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

<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.

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

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. 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

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

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 Indust. Inspect./Ministry (IE)

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

Organic vapour respirators may have short service life.

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

Physical state	Liquid.
Colour	Clear Colorless
Odor	Lavender, Vanilla
Odour threshold	<i>No data available.</i>
Melting point/freezing point	<i>No data available.</i>
Boiling point/boiling range	<i>No data available.</i>
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Flash point	≥ 14.4 °C [<i>Details</i> :Flash point of Ethanol]
Autoignition temperature	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
pH	7
Kinematic Viscosity	<i>No data available.</i>
Water solubility	<i>No data available.</i>
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Density	0.81 g/ml
Relative density	0.81 [<i>Ref Std</i> :WATER=1]
Relative Vapor Density	<i>No data available.</i>

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Molecular weight	<i>No data available.</i>
Percent volatile	98.4 % weight

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

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

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
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
Fragrance Ingredient	Dermal	Rabbit	LD50 > 5,010 mg/kg
Fragrance Ingredient	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.34 mg/l
Fragrance Ingredient	Ingestion	Rat	LD50 > 14,800 mg/kg
2,6-xylenol	Dermal		estimated to be 200 - 1,000 mg/kg
2,6-xylenol	Inhalation-Dust/Mist		estimated to be > 12.5 mg/l
2,6-xylenol	Ingestion		estimated to be 50 - 300 mg/kg
Orange, sweet, extracts	Inhalation-Vapour (4 hours)	Mouse	LC50 > 3.14 mg/l
4-tert-Butylcyclohexyl acetate	Dermal	Rabbit	LD50 > 4,680 mg/kg
LINALYL ACETATE	Dermal	Rabbit	LD50 5,610 mg/kg
Orange, sweet, extracts	Dermal	Rabbit	LD50 > 5,000 mg/kg
4-tert-Butylcyclohexyl acetate	Ingestion	Rat	LD50 3,370 mg/kg
LINALYL ACETATE	Ingestion	Rat	LD50 > 9,000 mg/kg
Orange, sweet, extracts	Ingestion	Rat	LD50 4,400 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
ethanol	Rabbit	No significant irritation
Fragrance Ingredient	Rabbit	No significant irritation
LINALYL ACETATE	Rabbit	Irritant
Orange, sweet, extracts	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
ethanol	Rabbit	Severe irritant
Fragrance Ingredient	Rabbit	No significant irritation
LINALYL ACETATE	Rabbit	Severe irritant
Orange, sweet, extracts	Rabbit	Mild irritant

Skin Sensitisation

Name	Species	Value
ethanol	Human	Not classified

Fragrance Ingredient	Guinea pig	Not classified
4-tert-Butylcyclohexyl acetate	Mouse	Sensitising
LINALYL ACETATE	Mouse	Sensitising
Orange, sweet, extracts	Mouse	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
Fragrance Ingredient	In Vitro	Not mutagenic
Fragrance Ingredient	In vivo	Not mutagenic
Orange, sweet, extracts	In Vitro	Not mutagenic
Orange, sweet, extracts	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
Fragrance Ingredient	Ingestion	Multiple animal species	Not carcinogenic
Orange, sweet, extracts	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	premating & during gestation
Fragrance Ingredient	Ingestion	Not classified for development	Rat	NOAEL 5,000 mg/kg/day	during organogenesis
Orange, sweet, extracts	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	premating & during gestation
Orange, sweet, extracts	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	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	

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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	
LINALYL ACETATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Orange, sweet, extracts	Ingestion	nervous system	Not classified		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
Fragrance Ingredient	Ingestion	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 470 mg/kg/day	105 weeks
Fragrance Ingredient	Ingestion	heart	Not classified	Rat	NOAEL 470 mg/kg/day	105 weeks
Fragrance Ingredient	Ingestion	endocrine system liver	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
Fragrance Ingredient	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 115 mg/kg/day	105 weeks
Fragrance Ingredient	Ingestion	skin bone, teeth, nails, and/or hair hematopoietic system immune system nervous system vascular system	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
Orange, sweet, extracts	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 75 mg/kg/day	103 weeks
Orange, sweet, extracts	Ingestion	liver	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Orange, sweet, extracts	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
Orange, sweet, extracts	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.

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
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
Fragrance Ingredient	Trade Secret	Bacteria	Experimental	18 hours	EC10	1,000 mg/l
Fragrance Ingredient	Trade Secret	Goldfish	Experimental	96 hours	LC50	>5,000 mg/l
Fragrance Ingredient	Trade Secret	Green algae	Experimental	72 hours	EC50	>100 mg/l
Fragrance Ingredient	Trade Secret	Water flea	Experimental	48 hours	EC50	>100 mg/l
Fragrance Ingredient	Trade Secret	Green algae	Experimental	72 hours	NOEC	100 mg/l
2,6-xylenol	576-26-1	Green Algae	Experimental	72 hours	EC50	45 mg/l
2,6-xylenol	576-26-1	Medaka	Experimental	96 hours	LC50	15 mg/l
2,6-xylenol	576-26-1	Water flea	Experimental	48 hours	EC50	11 mg/l
2,6-xylenol	576-26-1	Green Algae	Experimental	72 hours	NOEC	2 mg/l
2,6-xylenol	576-26-1	Water flea	Experimental	21 days	NOEC	0.54 mg/l
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Copepods	Experimental	48 hours	LC50	0.71 mg/l
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Crustacea other	Experimental	48 hours	LC50	0.61 mg/l
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-	1506-02-1	Fathead minnow	Experimental	96 hours	LC50	1.49 mg/l

hexamethyl-2-naphthalenyl)-						
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Blackworm	Experimental	28 days	NOEC	7.1 mg/kg (Dry Weight)
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Fathead minnow	Experimental	36 days	NOEC	0.035 mg/l
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Green Algae	Experimental	72 hours	NOEC	0.405 mg/l
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Water flea	Experimental	21 days	NOEC	0.196 mg/l
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Redworm	Experimental	56 days	NOEC	105 mg/kg (Dry Weight)
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Soil microbes	Experimental	28 days	EC50	>31.6 mg/kg (Dry Weight)
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Springtail	Experimental	28 days	NOEC	45 mg/kg (Dry Weight)
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Sugar beet	Experimental	21 days	EC50	1.29 mg/kg (Dry Weight)
4-tert-Butylcyclohexyl acetate	32210-23-4	Activated sludge	Experimental	3 hours	EC10	122 mg/l
4-tert-Butylcyclohexyl acetate	32210-23-4	Common Carp	Experimental	96 hours	LC50	8.6 mg/l
4-tert-Butylcyclohexyl acetate	32210-23-4	Green algae	Experimental	72 hours	EC50	22 mg/l
4-tert-Butylcyclohexyl acetate	32210-23-4	Water flea	Experimental	48 hours	EC50	5.3 mg/l
4-tert-Butylcyclohexyl acetate	32210-23-4	Green algae	Experimental	72 hours	EC10	11 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
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
Orange, sweet, extracts	8028-48-6	Green algae	Experimental	72 hours	EL50	150 mg/l
Orange, sweet, extracts	8028-48-6	Water flea	Experimental	48 hours	EL50	1.1 mg/l
Orange, sweet, extracts	8028-48-6	Zebra Fish	Experimental	96 hours	LL50	5.65 mg/l
Orange, sweet, extracts	8028-48-6	Water flea	Estimated	21 days	NOEC	0.08 mg/l
Orange, sweet, extracts	8028-48-6	Green algae	Experimental	72 hours	NOEL	50 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)
Fragrance Ingredient	Trade Secret	Experimental Biodegradation	28 days	BOD	84.4 % BOD/ThBOD	OECD 301F - Manometric respirometry
2,6-xyleneol	576-26-1	Experimental Biodegradation	28 days	BOD	2 % weight	OECD 301C - MITI test (I)
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Experimental Aquatic Inherent Biodegrad.	21 days	BOD	21 % BOD/ThBOD	
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
4-tert-Butylcyclohexyl acetate	32210-23-4	Estimated Photolysis		Photolytic half-life (in air)	2.1 days (t 1/2)	Non-standard method
4-tert-Butylcyclohexyl acetate	32210-23-4	Experimental Biodegradation	28 days	CO2 evolution	75 % weight	Non-standard method
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
Orange, sweet, extracts	8028-48-6	Estimated Biodegradation	28 days	CO2 evolution	72 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2

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
Fragrance Ingredient	Trade Secret	Experimental BCF- Carp	42 days	Bioaccumulation factor	4.6	OECD 305E - Bioaccumulation flow-through fish test
2,6-xyleneol	576-26-1	Experimental Bioconcentration		Log Kow	2.33	Non-standard method
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Experimental BCF - Bluegill	28 days	Bioaccumulation factor	597	OECD305-Bioconcentration
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	1506-02-1	Experimental Bioconcentration		Log Kow	5.70	
4-tert-Butylcyclohexyl acetate	32210-23-4	Estimated Bioconcentration		Bioaccumulation factor	15	Estimated: Bioconcentration factor
LINALYL ACETATE	115-95-7	Experimental Bioconcentration		Log Kow	3.9	Non-standard method
Orange, sweet, extracts	8028-48-6	Estimated Bioconcentration		Bioaccumulation factor	2100	Estimated: Bioconcentration factor

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-	1506-02-1	Experimental Mobility in Soil	Koc	>6 l/kg	

hexamethyl-2-naphthalenyl)-					
4-tert-Butylcyclohexyl acetate	32210-23-4	Estimated Mobility in Soil	Koc	430 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

IMDG: UN1950; AEROSOLS; flammable; 2.1; FD,SU.

ADR: UN1950; AEROSOLS; flammable; 2.1; (D); 5F.

IATA: UN1950; AEROSOLS; flammable; 2.1.

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 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.
H226	Flammable liquid and vapour.
H229	Pressurised container. may burst if heated.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
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:

EU Section 09: pH information information was modified.

Label: CLP Percent Unknown information was deleted.

List of sensitizers information was modified.

Section 11: Acute Toxicity table information was modified.

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

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

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

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 Control Temperature – Regulation Data information was modified.

Section 14 Emergency Temperature – Regulation Data information was modified.

Section 14 Hazard Class + Sub Risk – Regulation Data information was modified.

Section 14 Multiplier – Regulation Data information was modified.

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 – Regulation Data information was modified.
Section 14 Transport in bulk – Regulation Data 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 – Regulation Data information was modified.
Section 14 UN Number Column data information was modified.
Section 14: Transportation classification information was modified.
Section 15: Regulations - Inventories information was added.
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 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: glove data value information was deleted.
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.

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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