



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

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

1.1. Product identifier

Meguiar's Heart Air Freshener, Raspberry, AF1

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

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

CLASSIFICATION:

This material is not classified as hazardous according to Regulation (EC) No. 1272/2008, as amended for Great Britain, on classification, labelling, and packaging of substances and mixtures.

2.2. Label elements

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

Not applicable

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH208

Contains 2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)- | Benzyl salicylate. May produce an allergic reaction.

74% of the mixture consists of components of unknown acute oral toxicity.

Contains 79% of components with unknown hazards to the aquatic environment.

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], as amended for GB
Undisclosed Non-Hazardous Ingredients	Mixture	70 - 80	Substance not classified as hazardous
3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	(CAS-No.) 14901-07-6 (EC-No.) 238-969-9	1 - 10	Substance not classified as hazardous
Diethyl Phthalate	(CAS-No.) 84-66-2 (EC-No.) 201-550-6	1 - 10	Substance with a national occupational exposure limit
2-Butanone, 4-(4-hydroxyphenyl)-	(CAS-No.) 5471-51-2 (EC-No.) 226-806-4	1 - 5	Substance not classified as hazardous
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	(CAS-No.) 4940-11-8 (EC-No.) 225-582-5	1 - 5	Acute Tox. 4, H302
Benzyl Acetate	(CAS-No.) 140-11-4 (EC-No.) 205-399-7	1 - 5	Aquatic Chronic 3, H412
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	(CAS-No.) 23726-92-3 (EC-No.) 245-843-7	< 0.2	Skin Sens. 1, H317 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1
Benzyl Salicylate	(CAS-No.) 118-58-1 (EC-No.) 204-262-9	< 0.2	Aquatic Acute 1, H400,M=1 Aquatic Chronic 3, H412

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

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

If swallowed

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

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

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

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

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

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.

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. 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 closed 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. 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. 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. 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 cool. 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
Diethyl Phthalate	84-66-2	UK HSC	TWA:5 mg/m ³ ;STEL:10 mg/m ³	

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.

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

None required.

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

Material	Thickness (mm)	Breakthrough Time
Polymer laminate	No data available	No data available

Applicable Norms/Standards

Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

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 particulates

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 P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Scented article
Colour	Black
Odor	Raspberry
Odour threshold	No data available.
Melting point/freezing point	No data available.
Boiling point/boiling range	No data available.
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	No data available.
Flammable Limits(UEL)	No data available.
Flash point	> 60 °C [Test Method:Closed Cup]
Autoignition temperature	No data available.
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	No data available.
Relative density	No data available.

Relative Vapour Density

No data available.

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No data available.

Evaporation rate

No data available.

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

Alkali and alkaline earth metals.

Strong acids.

Strong oxidising agents.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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None known.	
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Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the 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 hazard classes as defined in the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.

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. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

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

Ingestion

No known health effects.

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
Diethyl Phthalate	Dermal	Rat	LD50 11,200 mg/kg
Diethyl Phthalate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.9 mg/l
Diethyl Phthalate	Ingestion	Rat	LD50 8,200 mg/kg
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	Ingestion	Rat	LD50 1,150 mg/kg
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	Dermal	similar compounds	LD50 > 2,000 mg/kg
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	Ingestion	similar compounds	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Diethyl Phthalate	Rabbit	Minimal irritation
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	Rabbit	Minimal irritation
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	similar compounds	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Diethyl Phthalate	Rabbit	Mild irritant
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	Rabbit	No significant irritation
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	similar compounds	No significant irritation

Skin Sensitisation

Name	Species	Value
Diethyl Phthalate	Human and animal	Not classified
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	Human	Sensitising

Photosensitisation

Name	Species	Value
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	Human	Not 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
Diethyl Phthalate	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	In vivo	Not mutagenic
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Diethyl Phthalate	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Diethyl Phthalate	Ingestion	Not classified for female reproduction	Mouse	NOAEL 1,625 mg/kg/day	2 generation
Diethyl Phthalate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,625 mg/kg	2 generation
Diethyl Phthalate	Ingestion	Not classified for development	Rat	NOAEL 1,900 mg/kg/day	during organogenesis
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	Ingestion	Not classified for female reproduction	Rat	NOAEL 200 mg/kg/day	prematuring into lactation
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	Ingestion	Not classified for male reproduction	Rat	NOAEL 200 mg/kg/day	15 weeks
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	Ingestion	Not classified for development	Rat	NOAEL 200 mg/kg/day	prematuring into lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

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

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Diethyl Phthalate	Dermal	skin	Not classified	Rat	NOAEL 855 mg/kg/day	2 years
Diethyl Phthalate	Dermal	liver kidney and/or bladder	Not classified	Rat	NOAEL 855 mg/kg	2 years
Diethyl Phthalate	Dermal	heart	Not classified	Rat	NOAEL 855 mg/kg/day	2 years
Diethyl Phthalate	Dermal	gastrointestinal tract nervous system respiratory system	Not classified	Rat	NOAEL 855 mg/kg	2 years
Diethyl Phthalate	Ingestion	heart	Not classified	Rat	NOAEL 3,710 mg/kg/day	16 weeks
Diethyl Phthalate	Ingestion	nervous system kidney and/or bladder	Not classified	Rat	NOAEL 3,710 mg/kg	16 weeks
Diethyl Phthalate	Ingestion	hematopoietic	Not classified	Rat	NOAEL	6 weeks

		system			3,160 mg/kg	
Diethyl Phthalate	Ingestion	liver	Not classified	Rat	NOAEL 1,753 mg/kg	3 weeks
Diethyl Phthalate	Ingestion	endocrine system	Not classified	Rat	NOAEL 3,710 mg/kg/day	16 weeks
Diethyl Phthalate	Ingestion	muscles respiratory system	Not classified	Rat	NOAEL 3,710 mg/kg	16 weeks
2-ETHYL-3-HYDROXY- 4H-PYRAN-4-ONE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 500 mg/kg/day	90 days
2-ETHYL-3-HYDROXY- 4H-PYRAN-4-ONE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
2-ETHYL-3-HYDROXY- 4H-PYRAN-4-ONE	Ingestion	liver	Not classified	Dog	NOAEL 500 mg/kg/day	90 days
2-ETHYL-3-HYDROXY- 4H-PYRAN-4-ONE	Ingestion	heart skin endocrine system immune system muscles nervous system eyes respiratory system vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
2-Buten-1-one, 1-(2,6,6- trimethyl-1-cyclohexen-1- yl)-, (Z)-	Dermal	photoirritation	Not classified	Human	Irritation Negative	

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 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
3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	14901-07-6	Activated sludge	Estimated	3 hours	EC50	120 mg/l
3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	14901-07-6	Fathead minnow	Estimated	96 hours	LC50	5.1 mg/l
3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	14901-07-6	Green algae	Estimated	72 hours	EC50	22.2 mg/l
3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	14901-07-6	Water flea	Estimated	48 hours	EC50	3.7 mg/l
3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	14901-07-6	Green algae	Estimated	72 hours	EC10	7.1 mg/l

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Diethyl Phthalate	84-66-2	Green algae	Experimental	72 hours	ErC50	45 mg/l
Diethyl Phthalate	84-66-2	Rainbow trout	Experimental	96 hours	LC50	12 mg/l
Diethyl Phthalate	84-66-2	Scud	Experimental	10 days	LC50	4.21 mg/l
Diethyl Phthalate	84-66-2	Water flea	Experimental	48 hours	LC50	90 mg/l
Diethyl Phthalate	84-66-2	Common Carp	Experimental	28 days	NOEC	5 mg/l
Diethyl Phthalate	84-66-2	Green algae	Experimental	72 hours	ErC10	9 mg/l
Diethyl Phthalate	84-66-2	Water flea	Experimental	21 days	NOEC	3.8 mg/l
Diethyl Phthalate	84-66-2	Activated sludge	Experimental	30 minutes	EC20	400 mg/l
Diethyl Phthalate	84-66-2	Lettuce	Experimental	14 days	EC50	134 mg/kg (Dry Weight)
Diethyl Phthalate	84-66-2	Redworm	Experimental	30 days	LC50	5 mg/kg (Dry Weight)
Diethyl Phthalate	84-66-2	Soil microbes	Experimental	70 days	NOEC	100 mg/kg (Dry Weight)
2-Butanone, 4-(4-hydroxyphenyl)-	5471-51-2	Ciliated protozoa	Experimental	48 hours	IC50	519 mg/l
2-Butanone, 4-(4-hydroxyphenyl)-	5471-51-2	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	4940-11-8	Green algae	Experimental	72 hours	EC50	7.2 mg/l
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	4940-11-8	Rainbow trout	Experimental	96 hours	LC50	>85 mg/l
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	4940-11-8	Water flea	Experimental	48 hours	EC50	27 mg/l
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	4940-11-8	Green algae	Experimental	72 hours	EC10	1.8 mg/l
Benzyl Acetate	140-11-4	Activated sludge	Experimental	3 hours	EC50	855 mg/l
Benzyl Acetate	140-11-4	Green algae	Experimental	72 hours	EC50	110 mg/l
Benzyl Acetate	140-11-4	Medaka	Experimental	96 hours	LC50	4 mg/l
Benzyl Acetate	140-11-4	Water flea	Experimental	48 hours	EC50	17 mg/l
Benzyl Acetate	140-11-4	Green algae	Experimental	72 hours	NOEC	52 mg/l
Benzyl Acetate	140-11-4	Medaka	Experimental	28 days	NOEC	0.92 mg/l
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	23726-92-3	Green algae	Analogous Compound	72 hours	ErC50	4.54 mg/l
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	23726-92-3	Medaka	Analogous Compound	96 hours	LC50	0.97 mg/l
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	23726-92-3	Fathead minnow	Analogous Compound	32 days	EC10	0.074 mg/l
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	23726-92-3	Green algae	Analogous Compound	72 hours	ErC10	2.45 mg/l

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2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	23726-92-3	Water flea	Analogous Compound	21 days	NOEC	0.346 mg/l
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	23726-92-3	Activated sludge	Analogous Compound	3 hours	EC50	241 mg/l
Benzyl Salicylate	118-58-1	Green algae	Experimental	72 hours	ErC50	1.29 mg/l
Benzyl Salicylate	118-58-1	Water flea	Experimental	48 hours	EC50	1.16 mg/l
Benzyl Salicylate	118-58-1	Zebra Fish	Experimental	96 hours	LC50	1 mg/l
Benzyl Salicylate	118-58-1	Green algae	Experimental	72 hours	NOEC	0.5 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	14901-07-6	Experimental Biodegradation	28 days	CO2 evolution	73 %CO2 evolution/THCO2 evolution	
3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	14901-07-6	Estimated Photolysis		Photolytic half-life (in air)	2.7 hours (t 1/2)	
Diethyl Phthalate	84-66-2	Experimental Biodegradation	28 days	BOD	88 %BOD/ThOD	OECD 301C - MITI test (I)
2-Butanone, 4-(4-hydroxyphenyl)-	5471-51-2	Estimated Biodegradation	28 days	BOD	85 %BOD/ThOD	OECD 301F - Manometric respirometry
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	4940-11-8	Experimental Biodegradation	28 days	CO2 evolution	104.4 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Benzyl Acetate	140-11-4	Experimental Biodegradation	28 days	CO2 evolution	100 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	23726-92-3	Analogous Compound Biodegradation	28 days	BOD	0 %BOD/ThOD	OECD 301C - MITI test (I)
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	23726-92-3	Analogous Compound Hydrolysis		Hydrolytic half-life (pH 7)	332 days (t 1/2)	OECD 111 Hydrolysis func of pH
Benzyl Salicylate	118-58-1	Experimental Biodegradation	28 days	BOD	93 %BOD/ThOD	OECD 301F - Manometric respirometry

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	14901-07-6	Experimental Bioconcentration		Log Kow	1.9	
Diethyl Phthalate	84-66-2	Experimental BCF - Fish	21 days	Bioaccumulation factor	117	
Diethyl Phthalate	84-66-2	Experimental Bioconcentration		Log Kow	2.2	OECD 117 log Kow HPLC method
2-Butanone, 4-(4-hydroxyphenyl)-	5471-51-2	Experimental Bioconcentration		Log Kow	1.33	
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	4940-11-8	Experimental Bioconcentration		Log Kow	2.9	
Benzyl Acetate	140-11-4	Experimental Bioconcentration		Log Kow	1.96	
2-Buten-1-one, 1-(2,6,6-trimethyl-1-	23726-92-3	Analogous Compound BCF -	60 days	Bioaccumulation factor	310	OECD305-Bioconcentration

cyclohexen-1-yl)-, (Z)-		Fish				
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	23726-92-3	Analogous Compound Bioconcentration		Log Kow	4.2	OECD 117 log Kow HPLC method
Benzyl Salicylate	118-58-1	Modeled Bioconcentration		Bioaccumulation factor	16	Catalogic™
Benzyl Salicylate	118-58-1	Experimental Bioconcentration		Log Kow	4.0	OECD 117 log Kow HPLC method

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	14901-07-6	Estimated Mobility in Soil	Koc	150 l/kg	Episuite™
Diethyl Phthalate	84-66-2	Experimental Mobility in Soil	Koc	217	EC C.19 Estim. of Koc by HPLC
2-Butanone, 4-(4-hydroxyphenyl)-	5471-51-2	Estimated Mobility in Soil	Koc	220 l/kg	Episuite™
2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE	4940-11-8	Estimated Mobility in Soil	Koc	9 l/kg	Episuite™
Benzyl Acetate	140-11-4	Experimental Mobility in Soil	Koc	250 l/kg	OECD 121 Estim. of Koc by HPLC
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	23726-92-3	Analogous Compound Mobility in Soil	Koc	1,259 l/kg	OECD 121 Estim. of Koc by HPLC
Benzyl Salicylate	118-58-1	Experimental Mobility in Soil	Koc	5,620 l/kg	OECD 121 Estim. of Koc by HPLC

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

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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)

14 06 02* Other halogenated solvents and solvent mixtures

SECTION 14: Transportation information

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number	No data available.	No data available.	No data available.
14.2 UN proper shipping name	No data available.	No data available.	No data available.
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.
14.4 Packing group	No data available.	No data available.	No data available.
14.5 Environmental hazards	No data available.	No data available.	No data available.
14.6 Special precautions for user	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.
14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.
ADR Classification Code	No data available.	No data available.	No data available.
IMDG Segregation Code	No data available.	No data available.	No data available.

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****Carcinogenicity**
Ingredient**CAS Nbr****Classification****Regulation**

Benzyl Acetate

140-11-4

Gr. 3: Not classifiable

International Agency
for Research on Cancer**Global inventory status**

Contact manufacturer for more information

COMAH Regulation, SI 2015/483

Seveso hazard categories, Annex 1, Part 1

None

Seveso named dangerous substances, Annex 1, Part 2

None

Regulation (EU) No 649/2012, as amended for GB

No chemicals listed

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 for GB.

SECTION 16: Other information

List of relevant H statements

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision information:

No revision information

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.

Meguiar's, Inc. SDSs for Great Britain are available at www.meguiars.co.uk

For Northern Ireland documents, please contact your 3M representative to obtain a copy.