

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



Tork Floral Air Freshener Spray

Version	Revision Date:	SDS Number:	Date of last issue: 10.12.2025
2.0	12.12.2025	11605447-00002	Date of first issue: 10.12.2025

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

1.1 Product identifier

Trade name : Tork Floral Air Freshener Spray

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

Use of the Sub-
stance/Mixture : Fragrances

Recommended restrictions
on use : Not applicable

1.3 Details of the supplier of the safety data sheet

Distributor and authorization holder
ESSITY UK LTD
Southfields Road, LU6 3EJ, Dunstable, United Kingdom
'+44 1582 677570
Phone number for emergencies: 999 or 112. The numbers are available 24/7.
info@essity.com

Manufacturer (according to REGULATION (EU) 2023/988 article 3 (8))
Essity Hygiene and Health AB
Mölnåls Bro 2, 431 31, Mölndal, Sweden
+46 (0)31 746 00 00

E-mail address of person
responsible for the SDS : info@essity.com

1.4 Emergency telephone number

Phone number for emergencies: 999 or 112. The numbers are available 24/7.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK
SI 2019/720, and UK SI 2020/1567)**

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

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Long-term (chronic) aquatic hazard, Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :  

Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **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.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

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

Hazardous components which must be listed on the label:

3,7-Dimethylnona-1,6-dien-3-ol
p-tert-Butylcyclohexyl Acetate
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-
Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-
Piperonal
Methyl 2-[[[2,4(or 3,5)-dimethyl-3-cyclohexen-1-yl]methylene]amino]benzoate
Methyl oct-2-ynoate
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

May displace oxygen and cause rapid suffocation.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Ethanol	64-17-5 200-578-6 603-002-00-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 specific concentra- tion limit Eye Irrit. 2; H319 >= 50 % Eye Irrit. 2; H319 >= 50 %	>= 10 - < 20
Propan-2-ol	67-63-0 200-661-7 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 1 - < 10
Benzyl acetate	140-11-4 205-399-7	Aquatic Chronic 3; H412	>= 1 - < 2.5
3,7-Dimethylnona-1,6-dien-3-ol	10339-55-6 233-732-6	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
p-tert-Butylcyclohexyl Acetate	32210-23-4 250-954-9	Skin Sens. 1B; H317	>= 1 - < 10
Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-	20298-69-5 243-718-1	Aquatic Chronic 2; H411	>= 1 - < 2.5
Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-	54464-57-2 259-174-3	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>= 0.25 - < 1
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	68039-49-6 268-264-1 605-043-00-4	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 0.25 - < 1
Biphenyl ether	101-84-8 202-981-2	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	>= 0.25 - < 1

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		M-Factor (Acute aquatic toxicity): 1	
2-Phenylethanol	60-12-8 200-456-2	Acute Tox. 4; H302 Acute Tox. 3; H311 Eye Irrit. 2; H319	$\geq 0.1 - < 1$
Piperonal	120-57-0 204-409-7	Skin Sens. 1; H317 Repr. 1B; H360FD	$\geq 0.1 - < 0.3$
Methyl benzoate	93-58-3 202-259-7 01-2119969268-21	Acute Tox. 4; H302 Repr. 2; H361d	$\geq 0.1 - < 1$
Methyl 2-[[[2,4(or 3,5)-dimethyl-3-cyclohexen-1-yl]methylene]amino]benzoate	68738-99-8 272-124-5	Skin Sens. 1B; H317	$\geq 0.1 - < 1$
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Not Assigned	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	$\geq 0.1 - < 0.25$
Methyl oct-2-ynoate	111-12-6 203-836-6	Acute Tox. 4; H302 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1	$\geq 0.0025 - < 0.025$
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	23726-93-4 245-844-2 01-2120105798-49	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Chronic 2; H411	$\geq 0.0025 - < 0.025$
Tridec-2-enenitrile	22629-49-8 245-142-6	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	$\geq 0.0025 - < 0.025$
Substances with a workplace exposure limit :			
Butane	106-97-8 203-448-7 601-004-00-0	Flam. Gas 1A; H220 Press.	$\geq 20 - < 30$

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	01-2119474691-32	Gas Liquefied gas; H280	
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Get medical attention immediately.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.
Remove contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention.
Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
- Risks : May cause an allergic skin reaction.
Causes serious eye irritation.
- Gas reduces oxygen available for breathing.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically and supportively.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Flash back possible over considerable distance.
Vapours may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

Hazardous combustion products : Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.
Remove all sources of ignition.
Ventilate the area.
Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.

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If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapours/mists with a water spray jet.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.
If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.
Avoid breathing spray.
Do not swallow.
Do not get in eyes.
Wash skin thoroughly after handling.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Keep container tightly closed.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.
Do not spray on an open flame or other ignition source.

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Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Do not pierce or burn, even after use. Keep cool. Protect from sunlight.

Advice on common storage : Do not store with the following product types:
Self-reactive substances and mixtures
Organic peroxides
Oxidizing agents
Flammable solids
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures, which in contact with water, emit flammable gases
Explosives
Gases

Recommended storage temperature : < 40 °C

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Butane	106-97-8	TWA	600 ppm 1,450 mg/m ³	GB EH40
	Further information: Capable of causing cancer and/or heritable genetic damage.			
		STEL	750 ppm 1,810 mg/m ³	GB EH40
	Further information: Capable of causing cancer and/or heritable genetic damage.			
Ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m ³	GB EH40
Propan-2-ol	67-63-0	STEL	500 ppm 1,250 mg/m ³	GB EH40

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		TWA	400 ppm 999 mg/m ³	GB EH40
Biphenyl ether	101-84-8	STEL	2 ppm 14 mg/m ³	GB EH40
		TWA	1 ppm 7 mg/m ³	GB EH40
		TWA	1 ppm 7 mg/m ³	2017/164/EU
Further information: Indicative				
		STEL	2 ppm 14 mg/m ³	2017/164/EU
Further information: Indicative				

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health effects	Value
Ethanol	Workers	Inhalation	Long-term systemic effects	380 mg/m ³
	Workers	Skin contact	Long-term systemic effects	267 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	114 mg/m ³
Propan-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m ³
	Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	89 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	319 mg/kg bw/day
Dipropylene glycol	Consumers	Ingestion	Long-term systemic effects	26 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	238 mg/m ³
	Workers	Skin contact	Long-term systemic effects	84 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	70 mg/m ³
Benzyl acetate	Consumers	Skin contact	Long-term systemic effects	51 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	24 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	21.9 mg/m ³
	Workers	Inhalation	Acute systemic effects	43.8 mg/m ³
	Workers	Skin contact	Long-term systemic effects	6.25 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	12.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic	5.5 mg/m ³

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			effects	
	Consumers	Inhalation	Acute systemic effects	11 mg/m3
	Consumers	Skin contact	Long-term systemic effects	3.125 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	6.25 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3.125 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	6.25 mg/kg bw/day
3,7-Dimethylnona-1,6-dien-3-ol	Workers	Inhalation	Long-term systemic effects	3 mg/m3
	Workers	Inhalation	Acute systemic effects	18 mg/m3
	Workers	Skin contact	Long-term systemic effects	2.7 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	5.5 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	1.6 mg/cm2
	Workers	Skin contact	Acute local effects	1.6 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.74 mg/m3
	Consumers	Inhalation	Acute systemic effects	4.4 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1.4 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	2.7 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	1.6 mg/cm2
	Consumers	Skin contact	Acute local effects	1.6 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.2 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	1.3 mg/kg bw/day
2-Phenylethanol	Workers	Inhalation	Long-term systemic effects	59.9 mg/m3
	Workers	Skin contact	Long-term systemic effects	21.2 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	17.7 mg/m3
	Consumers	Skin contact	Long-term systemic effects	12.7 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	5.1 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	5.1 mg/kg bw/day
Ethanone, 1-	Workers	Inhalation	Long-term systemic	30 mg/m3

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(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-			effects	
	Workers	Skin contact	Long-term systemic effects	28.7 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	0.648 mg/cm ²
	Consumers	Inhalation	Long-term systemic effects	9 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	17.2 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	0.380 mg/cm ²
	Consumers	Ingestion	Long-term systemic effects	3 mg/kg bw/day
Piperonal	Workers	Inhalation	Long-term systemic effects	5.29 mg/m ³
	Workers	Skin contact	Long-term systemic effects	0.75 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1.3 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	0.375 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.375 mg/kg bw/day
Biphenyl ether	Workers	Inhalation	Long-term systemic effects	245.8 mg/m ³
	Workers	Inhalation	Long-term local effects	9.68 mg/m ³
	Workers	Skin contact	Long-term systemic effects	58.3 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	0.15 mg/cm ²
Methyl benzoate	Workers	Inhalation	Long-term systemic effects	14.8 mg/m ³
	Workers	Skin contact	Long-term systemic effects	4.2 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2.61 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	1.5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1.5 mg/kg bw/day
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Workers	Inhalation	Long-term systemic effects	3.17 mg/m ³
	Workers	Skin contact	Long-term systemic effects	0.9 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.78 mg/m ³
	Consumers	Skin contact	Long-term systemic	0.45 mg/kg

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			effects	bw/day
	Consumers	Ingestion	Long-term systemic effects	0.45 mg/kg bw/day
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Workers	Inhalation	Long-term systemic effects	2.71 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.77 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.67 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0.38 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.38 mg/kg bw/day
Tridec-2-enenitrile	Workers	Inhalation	Long-term systemic effects	1.481 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.840 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.222 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0.3 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.150 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
Ethanol	Fresh water	0.96 mg/l
	Freshwater - intermittent	2.75 mg/l
	Marine water	0.79 mg/l
	Sewage treatment plant	580 mg/l
	Fresh water sediment	3.6 mg/kg dry weight (d.w.)
	Marine sediment	2.9 mg/kg dry weight (d.w.)
	Soil	0.63 mg/kg dry weight (d.w.)
Propan-2-ol	Oral (Secondary Poisoning)	380 mg/kg food
	Fresh water	140.9 mg/l
	Marine water	140.9 mg/l
	Intermittent use/release	140.9 mg/l
	Sewage treatment plant	2251 mg/l
	Fresh water sediment	552 mg/kg dry weight (d.w.)
	Marine sediment	552 mg/kg dry weight (d.w.)
Dipropylene glycol	Soil	28 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	160 mg/kg food
	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Intermittent use/release	1 mg/l

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	Sewage treatment plant	1000 mg/l
	Fresh water sediment	0.238 mg/kg dry weight (d.w.)
	Marine sediment	0.024 mg/kg dry weight (d.w.)
	Soil	0.025 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	313 mg/kg food
Benzyl acetate	Fresh water	0.004 mg/l
	Marine water	0.0004 mg/l
	Intermittent use/release	0.04 mg/l
	Sewage treatment plant	8.55 mg/l
	Fresh water sediment	0.114 mg/kg
	Marine sediment	0.0114 mg/kg
	Soil	0.0205 mg/kg
3,7-Dimethylnona-1,6-dien-3-ol	Fresh water	0.023 mg/l
	Freshwater - intermittent	0.23 mg/l
	Marine water	0.0023 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.223 mg/kg dry weight (d.w.)
	Marine sediment	0.0223 mg/kg dry weight (d.w.)
	Soil	0.031 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	8.53 mg/kg food
p-tert-Butylcyclohexyl Acetate	Fresh water	0.0053 mg/l
	Marine water	0.00053 mg/l
	Freshwater - intermittent	0.053 mg/l
	Sewage treatment plant	12.2 mg/l
	Fresh water sediment	2.01 mg/kg dry weight (d.w.)
	Marine sediment	0.21 mg/kg dry weight (d.w.)
	Soil	0.42 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	66.67 mg/kg food
Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-	Fresh water	0.011 mg/l
	Marine water	0.0011 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	1.5 mg/kg
	Marine sediment	0.15 mg/kg
	Soil	0.293 mg/kg
2-Phenylethanol	Fresh water	0.215 mg/l
	Marine water	0.0215 mg/l
	Intermittent use/release	2.15 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	1.454 mg/kg dry weight (d.w.)

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	Marine sediment	0.1454 mg/kg dry weight (d.w.)
	Soil	0.164 mg/kg dry weight (d.w.)
Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-	Fresh water	4.4 µg/l
	Marine water	0.44 µg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	3.73 mg/kg dry weight (d.w.)
	Marine sediment	0.75 mg/kg dry weight (d.w.)
	Soil	2.7 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	26.7 mg/kg food
Piperonal	Fresh water	2.5 µg/l
	Freshwater - intermittent	25 µg/l
	Marine water	0.25 µg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.0119 mg/kg dry weight (d.w.)
	Marine sediment	0.0012 mg/kg dry weight (d.w.)
	Soil	0.00084 mg/kg dry weight (d.w.)
Biphenyl ether	Fresh water	0.0017 mg/l
	Marine water	0.00017 mg/l
	Intermittent use/release	0.017 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.345 mg/kg
	Marine sediment	0.0345 mg/kg
	Soil	0.0681 mg/kg
Methyl benzoate	Fresh water	0.023 mg/l
	Freshwater - intermittent	0.23 mg/l
	Marine water	0.0023 mg/l
	Sewage treatment plant	8.15 mg/l
	Fresh water sediment	0.492 mg/kg dry weight (d.w.)
	Marine sediment	0.0492 mg/kg dry weight (d.w.)
	Soil	0.085 mg/kg dry weight (d.w.)
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Fresh water	0.77 µg/l
	Marine water	0.077 µg/l
	Intermittent use/release	7.7 µg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.389 mg/kg
	Marine sediment	0.039 mg/kg
	Soil	1.786 mg/kg
	Oral (Secondary Poisoning)	80 mg/kg food

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(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Fresh water	1.09 µg/l
	Freshwater - intermittent	10.9 µg/l
	Marine water	0.11 µg/l
	Sewage treatment plant	3.2 mg/l
	Fresh water sediment	0.087 mg/kg dry weight (d.w.)
	Marine sediment	0.00867 mg/kg dry weight (d.w.)
	Soil	0.017 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	6.67 mg/kg food
Tridec-2-enenitrile	Fresh water	0.0108 µg/l
	Freshwater - intermittent	0.1 µg/l
	Marine water	0.00108 µg/l
	Marine water - intermittent	0.1 µg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.263 mg/kg dry weight (d.w.)
	Marine sediment	0.0263 mg/kg dry weight (d.w.)
	Soil	0.680 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

If sufficient ventilation is unavailable, use with local exhaust ventilation.

If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:
Safety goggles
Equipment should conform to BS EN 166

Hand protection

Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Take note that the product is flammable, which may impact the selection of hand protection. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical re-

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sistance data and an assessment of the local exposure potential.

Wear the following personal protective equipment:

If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.

Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Equipment should conform to BS EN 137

Filter type : Self-contained breathing apparatus

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Aerosol containing a liquefied gas
Propellant	: Butane, Isobutane, Propane
Colour	: Colorless to pale yellow
Odour	: characteristic
Odour Threshold	: No data available
pH	: Solvent mixture; pH value determination not possible, no aqueous solution
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Extremely flammable aerosol.
Upper explosion limit / Upper flammability limit	: 19 %(V) (20 °C)
Lower explosion limit / Lower flammability limit	: 1.8 %(V) (20 °C)
Vapour pressure	: 4,000 hPa (20 °C)
Relative vapour density	: Not applicable

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Density : 0.633 g/cm³ (20 °C)

Solubility(ies)
Water solubility : No data available

Partition coefficient: n-
octanol/water : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Particle size : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Extremely flammable aerosol.
Vapours may form explosive mixture with air.
If the temperature rises there is danger of the vessels bursting
due to the high vapor pressure.
Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure :
Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

Ethanol:

Acute oral toxicity : LD50 (Rat): 10,470 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male): 116.9 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 15,800 mg/kg

Propan-2-ol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 25 mg/l
Exposure time: 6 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Benzyl acetate:

Acute oral toxicity : LD50 (Rat): 2,490 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 0.766 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

3,7-Dimethylnona-1,6-dien-3-ol:

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Acute oral toxicity : LD50 (Rat): 5,000 mg/kg
Acute inhalation toxicity : LC50 (Mouse): > 2 mg/l
Exposure time: 90 min
Test atmosphere: vapour
Remarks: Based on data from similar materials
Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

p-tert-Butylcyclohexyl Acetate:

Acute oral toxicity : LD50 (Rat): 3,323 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 4,680 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-:

Acute oral toxicity : LD50 (Rat): 4,600 mg/kg
Method: OECD Test Guideline 401
Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-:

Acute oral toxicity : LD50 (Rat): > 2,000 - 5,000 mg/kg
Remarks: Based on data from similar materials
Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
Remarks: Based on data from similar materials

Biphenyl ether:

Acute oral toxicity : LD50 (Rat): 2,830 mg/kg

2-Phenylethanol:

Acute oral toxicity : LD50 (Rat): 1,603.3 mg/kg
Acute dermal toxicity : LD50 (Rabbit, male): 806 mg/kg

Piperonal:

Acute oral toxicity : LD50 (Rat): 2,700 mg/kg
Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

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Methyl benzoate:

Acute oral toxicity : LD50 (Rat): 1,625 mg/kg
Method: OECD Test Guideline 401

Methyl 2-[[[2,4(or 3,5)-dimethyl-3-cyclohexen-1-yl]methylene]amino]benzoate:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Reaction mass of 2-methylbutyl salicylate and pentyl salicylate:

Acute oral toxicity : LD50 (Rat): 2,000 mg/kg
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: Directive 67/548/EEC, Annex V, B.3.
Remarks: Based on data from similar materials

Methyl oct-2-ynoate:

Acute oral toxicity : LD50 (Rat): 1,530 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3,300 mg/kg

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: Directive 67/548/EEC, Annex V, B.1.
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 - 5,000 mg/kg
Remarks: Based on data from similar materials

Tridec-2-enenitrile:

Acute oral toxicity : LD50 (Rat): > 4,165 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : (Rat): > 0.0486 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal

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|| toxicity

Butane:

Acute inhalation toxicity : LC50 (Rat): 570000 ppm
Exposure time: 15 min
Test atmosphere: gas
Remarks: Based on data from similar materials

Skin corrosion/irritation

Not classified based on available information.

Components:

Ethanol:

|| Species : Rabbit
|| Method : OECD Test Guideline 404
|| Result : No skin irritation

Propan-2-ol:

|| Species : Rabbit
|| Result : No skin irritation

Benzyl acetate:

|| Species : Rabbit
|| Method : Directive 67/548/EEC, Annex V, B.4.
|| Result : No skin irritation

3,7-Dimethylnona-1,6-dien-3-ol:

|| Species : Rabbit
|| Result : Skin irritation

p-tert-Butylcyclohexyl Acetate:

|| Species : reconstructed human epidermis (RhE)
|| Method : OECD Test Guideline 439

|| Result : No skin irritation

Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-:

|| Species : Rabbit
|| Result : No skin irritation

Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-:

|| Species : reconstructed human epidermis (RhE)
|| Method : OECD Test Guideline 439

|| Result : Skin irritation

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3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation
Remarks : Based on data from similar materials

Biphenyl ether:

Species : Rabbit
Result : Mild skin irritation

2-Phenylethanol:

Species : Rabbit
Result : No skin irritation

Piperonal:

Species : Rat
Result : No skin irritation

Methyl benzoate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Methyl 2-[[[2,4(or 3,5)-dimethyl-3-cyclohexen-1-yl]methylene]amino]benzoate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Mild skin irritation

Reaction mass of 2-methylbutyl salicylate and pentyl salicylate:

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 439
Remarks : Based on data from similar materials

Result : No skin irritation

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 439

Result : Skin irritation

Tridec-2-enenitrile:

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 439

Result : No skin irritation

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Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Ethanol:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Irritation to eyes, reversing within 21 days

Propan-2-ol:

Species	: Rabbit
Result	: Irritation to eyes, reversing within 21 days

Benzyl acetate:

Species	: Rabbit
Method	: Directive 67/548/EEC, Annex V, B.5.
Result	: No eye irritation

3,7-Dimethylnona-1,6-dien-3-ol:

Species	: Rabbit
Method	: Draize Test
Result	: Irritation to eyes, reversing within 21 days

p-tert-Butylcyclohexyl Acetate:

Species	: Rabbit
Result	: No eye irritation

Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-:

Species	: Rabbit
Result	: No eye irritation

3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-:

Species	: Rabbit
Method	: Draize Test
Result	: No eye irritation
Remarks	: Based on data from similar materials

Biphenyl ether:

Species	: Rabbit
Result	: Irritation to eyes, reversing within 21 days

2-Phenylethanol:

Species	: Rabbit
Result	: Irritation to eyes, reversing within 21 days

Piperonal:

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Species : Rabbit
Result : No eye irritation

Methyl benzoate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

Methyl 2-[[[2,4(or 3,5)-dimethyl-3-cyclohexen-1-yl]methylene]amino]benzoate:

Species : Tissue Culture
Method : OECD Test Guideline 492

Result : No eye irritation

Reaction mass of 2-methylbutyl salicylate and pentyl salicylate:

Species : Rabbit
Method : Directive 67/548/EEC, Annex V, B.5.
Result : No eye irritation
Remarks : Based on data from similar materials

Methyl oct-2-ynoate:

Species : Bovine cornea
Method : OECD Test Guideline 437

Result : No eye irritation

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Species : Rabbit
Result : No eye irritation
Remarks : Based on data from similar materials

Tridec-2-enenitrile:

Species : Bovine cornea
Method : OECD Test Guideline 437

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Ethanol:

Test Type : Mouse ear swelling test (MEST)

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Exposure routes	: Skin contact
Species	: Mouse
Result	: negative

Propan-2-ol:

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

Benzyl acetate:

Test Type	: Magnusson-Kligman-Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative

3,7-Dimethylnona-1,6-dien-3-ol:

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: positive

Assessment	: Probability or evidence of low to moderate skin sensitisation rate in humans
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p-tert-Butylcyclohexyl Acetate:

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: positive

Assessment	: Probability or evidence of low to moderate skin sensitisation rate in humans
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Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-:

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative

Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-:

Assessment	: Probability or evidence of low to moderate skin sensitisation rate in humans
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Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : positive

3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : positive
Remarks : Based on data from similar materials

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans

Biphenyl ether:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Humans
Result : negative

2-Phenylethanol:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : negative

Piperonal:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : positive

Assessment : Probability or evidence of skin sensitisation in humans

Methyl benzoate:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : negative

Methyl 2-[[[2,4(or 3,5)-dimethyl-3-cyclohexen-1-yl]methylene]amino]benzoate:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact

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Species : Mouse
Method : OECD Test Guideline 429
Result : positive

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans

Reaction mass of 2-methylbutyl salicylate and pentyl salicylate:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : negative

Methyl oct-2-ynoate:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : positive

Assessment : Probability or evidence of high skin sensitisation rate in humans

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Result : positive

Assessment : Probability or evidence of high skin sensitisation rate in humans

Tridec-2-enenitrile:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Result : positive

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans

Germ cell mutagenicity

Not classified based on available information.

Components:

Ethanol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

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Genotoxicity in vivo : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Rat
Application Route: Ingestion
Result: negative

Propan-2-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo : Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

Benzyl acetate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay
Species: Rat
Application Route: Ingestion
Result: negative

3,7-Dimethylnona-1,6-dien-3-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

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p-tert-Butylcyclohexyl Acetate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Remarks: Based on data from similar materials

Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Rat
Application Route: Skin contact
Result: negative

3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse

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Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Biphenyl ether:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

2-Phenylethanol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Piperonal:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Result: negative

Test Type: Chromosome aberration test in vitro
Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: Ingestion
Result: negative

Methyl benzoate:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Methyl 2-[[[2,4(or 3,5)-dimethyl-3-cyclohexen-1-yl]methylene]amino]benzoate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Reaction mass of 2-methylbutyl salicylate and pentyl salicylate:

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Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Methyl oct-2-ynoate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Tridec-2-enenitrile:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)

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Species: Mouse
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative

Butane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Rat
Application Route: inhalation (gas)
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:

Propan-2-ol:

Species : Rat
Application Route : inhalation (vapour)
Exposure time : 104 weeks
Method : OECD Test Guideline 451
Result : negative

Benzyl acetate:

Species : Mouse
Application Route : Ingestion
Exposure time : 103 weeks
Result : negative

Piperonal:

Species : Rat
Application Route : Ingestion
Exposure time : 2 Years
Result : negative

Reproductive toxicity

Not classified based on available information.

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Components:

Ethanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: Ingestion
Result: negative

Propan-2-ol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

Benzyl acetate:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

3,7-Dimethylnona-1,6-dien-3-ol:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

p-tert-Butylcyclohexyl Acetate:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the
reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the
reproduction/developmental toxicity screening test
Species: Rat

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Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthalenyl)-:

Effects on fertility : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 443
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

Biphenyl ether:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

2-Phenylethanol:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Skin contact
Result: negative

Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

Piperonal:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the
reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: positive

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: positive

Reproductive toxicity - As- : Clear evidence of adverse effects on sexual function and fertil-

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Assessment ity, based on animal experiments., Clear evidence of adverse effects on development, based on animal experiments.

Methyl benzoate:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: positive
Remarks: The test was conducted according to guideline

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

Tridec-2-enenitrile:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

Butane:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: inhalation (gas)
Method: OECD Test Guideline 422
Result: negative

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: inhalation (gas)
Method: OECD Test Guideline 422

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Result: negative

STOT - single exposure

Not classified based on available information.

Components:

Propan-2-ol:

|| Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Components:

3,7-Dimethylnona-1,6-dien-3-ol:

|| Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Tridec-2-enenitrile:

|| Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Repeated dose toxicity

Components:

Ethanol:

|| Species : Rat
|| NOAEL : 1,730 mg/kg
|| LOAEL : 3,200 mg/kg
|| Application Route : Ingestion
|| Exposure time : 90 Days

Propan-2-ol:

|| Species : Rat
|| NOAEL : 12.5 mg/l
|| Application Route : inhalation (vapour)
|| Exposure time : 104 Weeks

Benzyl acetate:

|| Species : Rat
|| NOAEL : 500 mg/kg
|| Application Route : Ingestion
|| Exposure time : 14 Days

3,7-Dimethylnona-1,6-dien-3-ol:

|| Species : Rat

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NOAEL	:	> 30 - 300 mg/kg
Application Route	:	Ingestion
Exposure time	:	28 Days
Remarks	:	Based on data from similar materials

p-tert-Butylcyclohexyl Acetate:

Species	:	Rat
NOAEL	:	> 300 mg/kg
Application Route	:	Ingestion
Exposure time	:	28 Days
Method	:	OECD Test Guideline 407
Remarks	:	Based on data from similar materials

Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-:

Species	:	Rat
NOAEL	:	437 mg/kg
Application Route	:	Ingestion
Exposure time	:	> 10 Weeks
Method	:	OECD Test Guideline 422

Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-:

Species	:	Rat
NOAEL	:	120 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days
Method	:	OECD Test Guideline 408

3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-:

Species	:	Rat
NOAEL	:	> 100 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days
Remarks	:	Based on data from similar materials

Biphenyl ether:

Species	:	Rat
NOAEL	:	301 mg/kg
Application Route	:	Ingestion
Exposure time	:	13 Weeks
Method	:	OECD Test Guideline 408

2-Phenylethanol:

Species	:	Rat
NOAEL	:	510 mg/kg
LOAEL	:	1,020 mg/kg
Application Route	:	Skin contact

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Exposure time : 90 Days

Piperonal:

Species : Rat
NOAEL : 300 mg/kg
LOAEL : 1,000 mg/kg
Application Route : Ingestion
Exposure time : 84 Days
Method : OECD Test Guideline 422

Tridec-2-enenitrile:

Species : Rat
NOAEL : 60 mg/kg
Application Route : Ingestion
Exposure time : 54 - 63 Days
Method : OECD Test Guideline 422

Butane:

Species : Rat
NOAEL : \geq 9000 ppm
Application Route : inhalation (gas)
Exposure time : 6 Weeks
Method : OECD Test Guideline 422

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Ethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 14,200 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 5,012 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
Exposure time: 72 h

EC10 (Chlorella vulgaris (Fresh water algae)): 11.5 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Protozoa): 5,800 mg/l
Exposure time: 4 h

Toxicity to fish (Chronic tox- : NOEC: \geq 79 mg/l

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Toxicity) Exposure time: 100 d
Species: *Oryzias latipes* (Japanese medaka)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 9.6 mg/l
Exposure time: 9 d
Species: *Daphnia magna* (Water flea)

Propan-2-ol:

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 9,640 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 10,000 mg/l
Exposure time: 24 h

Toxicity to microorganisms : EC50 (*Pseudomonas putida*): > 1,050 mg/l
Exposure time: 16 h

Benzyl acetate:

Toxicity to fish : LC50 (*Oryzias latipes* (Orange-red killifish)): 4 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 17 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 110 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (*Desmodesmus subspicatus* (green algae)): 52 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 : 855 mg/l
Exposure time: 3 h

Toxicity to fish (Chronic toxicity) : NOEC: 0.92 mg/l
Exposure time: 28 d
Species: *Oryzias latipes* (Orange-red killifish)

3,7-Dimethylnona-1,6-dien-3-ol:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 24 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 23 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (*Desmodesmus subspicatus* (green algae)): 25.1 mg/l
Exposure time: 72 h

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Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 6.3 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

p-tert-Butylcyclohexyl Acetate:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 8.6 mg/l
Exposure time: 96 h
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 5.3 mg/l
aquatic invertebrates Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : ErC50 (Desmodesmus subspicatus (green algae)): 22 mg/l
plants Exposure time: 72 h
Method: Directive 67/548/EEC, Annex V, C.3.

EC10 (Desmodesmus subspicatus (green algae)): 11 mg/l
Exposure time: 72 h
Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to microorganisms : EC10 : 122 mg/l
Exposure time: 3 h

Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 5.6 mg/l
Exposure time: 96 h
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 17 mg/l
aquatic invertebrates Exposure time: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): 4.2 mg/l
plants Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC : 100 mg/l
Exposure time: 61 d

Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.3 mg/l
Exposure time: 96 h
Test substance: Water Accommodated Fraction

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.38 mg/l
aquatic invertebrates Exposure time: 48 h
Test substance: Water Accommodated Fraction

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Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 2.6 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction
		NOEC (Desmodesmus subspicatus (green algae)): >= 2.6 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction
Toxicity to fish (Chronic toxicity)	:	NOEC: 0.16 mg/l Exposure time: 30 d Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC10: 0.044 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	:	1

3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 1 - 10 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l Exposure time: 48 h Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 10 - 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
		NOEC (Desmodesmus subspicatus (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials

Biphenyl ether:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 1.7 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 0.32

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plants mg/l
Exposure time: 72 h

EC50 (Pseudokirchneriella subcapitata (green algae)): 0.58 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

2-Phenylethanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 215 - 464 mg/l
Exposure time: 96 h
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 287.17 mg/l
Exposure time: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 1,300 mg/l
Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)): 430 mg/l
Exposure time: 72 h

Toxicity to microorganisms : NOEC : 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Piperonal:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 2.5 mg/l
Exposure time: 96 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 52 mg/l
Exposure time: 48 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 31 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201

EC10 (Raphidocelis subcapitata (freshwater green alga)): 4.8 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201

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Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 28 d

Methyl benzoate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 23 mg/l
Exposure time: 96 h
Method: Directive 67/548/EEC, Annex V, C.1.
Remarks: The test was conducted according to guideline

Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 111.9 mg/l
Exposure time: 72 h
Method: Directive 67/548/EEC, Annex V, C.3.
Remarks: The test was conducted according to guideline

EC10 (Selenastrum capricornutum (fresh water algae)): 62.4 mg/l
Exposure time: 72 h
Method: Directive 67/548/EEC, Annex V, C.3.
Remarks: The test was conducted according to guideline

Toxicity to microorganisms : EC50 (activated sludge): 815 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: The test was conducted according to guideline

Methyl 2-[[[2,4(or 3,5)-dimethyl-3-cyclohexen-1-yl]methylene]amino]benzoate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 3.9 mg/l
Exposure time: 48 h
Test substance: Water Accommodated Fraction
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 7.94 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201

Reaction mass of 2-methylbutyl salicylate and pentyl salicylate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1.34 mg/l
Exposure time: 96 h
Method: Directive 67/548/EEC, Annex V, C.1.
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.88 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.77 mg/l

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Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.2 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

Methyl oct-2-ynoate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.62 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.79 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 0.2 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1.09 mg/l
Exposure time: 96 h

Toxicity to microorganisms : EC10 (activated sludge): 93.9 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Tridec-2-enenitrile:

Toxicity to fish : LL50 (Danio rerio (zebra fish)): > 0.164 mg/l
Exposure time: 96 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.01084 mg/l
Exposure time: 48 h

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	Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.106 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	EC10 (Pseudokirchneriella subcapitata (green algae)): 0.0594 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	: 10
M-Factor (Chronic aquatic toxicity)	: 10

12.2 Persistence and degradability

Components:

Ethanol:

Biodegradability	: Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d
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Propan-2-ol:

Biodegradability	: Result: rapidly degradable
BOD/COD	: BOD: 1,19 (BOD5) COD: 2,23 BOD/COD: 53 %

Benzyl acetate:

Biodegradability	: Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 28 d
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3,7-Dimethylnona-1,6-dien-3-ol:

Biodegradability	: Result: Readily biodegradable. Biodegradation: 91 % Exposure time: 28 d Method: OECD Test Guideline 301F
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p-tert-Butylcyclohexyl Acetate:

Biodegradability	: Result: Readily biodegradable. Biodegradation: 75 % Exposure time: 28 d Method: Directive 67/548/EEC Annex V, C.4.C.
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Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-:

|| Biodegradability : Result: Not readily biodegradable.
Biodegradation: 43 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-:

|| Biodegradability : Result: Not readily biodegradable.
Biodegradation: 11 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-:

|| Biodegradability : Result: Not readily biodegradable.
Biodegradation: 3 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Biphenyl ether:

|| Biodegradability : Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 20 d

2-Phenylethanol:

|| Biodegradability : Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Piperonal:

|| Biodegradability : Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Methyl benzoate:

|| Biodegradability : Result: Readily biodegradable.
Biodegradation: 62 %
Exposure time: 29 d
Method: Directive 67/548/EEC Annex V, C.4.C.

Methyl 2-[[[2,4(or 3,5)-dimethyl-3-cyclohexen-1-yl]methylene]amino]benzoate:

|| Biodegradability : Result: Not readily biodegradable.
Biodegradation: 25 %
Exposure time: 28 d
Method: Directive 67/548/EEC Annex V, C.4.E.

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Reaction mass of 2-methylbutyl salicylate and pentyl salicylate:

|| Biodegradability : Result: Readily biodegradable.
Biodegradation: 86 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

Methyl oct-2-ynoate:

|| Biodegradability : Result: Readily biodegradable.
Biodegradation: 80 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

|| Biodegradability : Result: Not readily biodegradable.
Biodegradation: 65 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Tridec-2-enenitrile:

|| Biodegradability : Result: Readily biodegradable.
Biodegradation: 88 %
Exposure time: 29 d
Method: OECD Test Guideline 301F

Butane:

Biodegradability : Result: Readily biodegradable.
Remarks: Based on data from similar materials

12.3 Bioaccumulative potential

Components:

Ethanol:

|| Partition coefficient: n-octanol/water : log Pow: -0.35

Propan-2-ol:

|| Partition coefficient: n-octanol/water : log Pow: 0.05

Benzyl acetate:

|| Partition coefficient: n-octanol/water : log Pow: 1.96

3,7-Dimethylnona-1,6-dien-3-ol:

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Partition coefficient: n-octanol/water : log Pow: 3.3
Method: OECD Test Guideline 107

p-tert-Butylcyclohexyl Acetate:

Bioaccumulation : Bioconcentration factor (BCF): < 500

Partition coefficient: n-octanol/water : log Pow: 4.8

Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate, (1R,2R)-rel-:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 203
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 4.7 - 4.8

Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 391
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 5.65
Method: OECD Test Guideline 117

3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-:

Partition coefficient: n-octanol/water : log Pow: 2.85
Remarks: Calculation

Biphenyl ether:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 155 - 200

Partition coefficient: n-octanol/water : log Pow: 4.21

2-Phenylethanol:

Partition coefficient: n-octanol/water : log Pow: 1.3

Piperonal:

Partition coefficient: n-octanol/water : log Pow: 1.2
Method: OECD Test Guideline 117

Methyl benzoate:

Partition coefficient: n-octanol/water : log Pow: 2.12

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Methyl 2-[[[2,4(or 3,5)-dimethyl-3-cyclohexen-1-yl]methylene]amino]benzoate:

|| Partition coefficient: n- : log Pow: 1.9
|| octanol/water Method: OECD Test Guideline 117

Reaction mass of 2-methylbutyl salicylate and pentyl salicylate:

|| Partition coefficient: n- : log Pow: 4.5
|| octanol/water

Methyl oct-2-ynoate:

|| Partition coefficient: n- : log Pow: 3
|| octanol/water Method: OECD Test Guideline 117

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

|| Bioaccumulation : Species: Cyprinus carpio (Carp)
|| Bioconcentration factor (BCF): 14 - 56

|| Partition coefficient: n- : log Pow: 3.4
|| octanol/water Method: OECD Test Guideline 123

Tridec-2-enenitrile:

|| Partition coefficient: n- : log Pow: >= 5.9
|| octanol/water Method: OECD Test Guideline 117

Butane:

|| Partition coefficient: n- : log Pow: 2.89
|| octanol/water

12.4 Mobility in soil

Components:

Ethanol:

|| Distribution among environ- : log Koc: 0.2
|| mental compartments

12.5 Results of PBT and vPvB assessment

Product:

|| Assessment : This substance/mixture contains no components considered
|| to be either persistent, bioaccumulative and toxic (PBT), or
|| very persistent and very bioaccumulative (vPvB) at levels of
|| 0.1% or higher.

12.6 Other adverse effects

Product:

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Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Do not dispose of waste into sewer.

Contaminated packaging : Please ensure aerosol cans are sprayed completely empty (including propellant)
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Empty containers retain residue and can be dangerous.
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.
If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADN : UN 1950
ADR : UN 1950
RID : UN 1950
IMDG : UN 1950
IATA : UN 1950

14.2 UN proper shipping name

ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS
IATA : Aerosols, flammable

14.3 Transport hazard class(es)

Class	Subsidiary risks
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ADN	:	2	2.1
ADR	:	2	2.1
RID	:	2	2.1
IMDG	:	2.1	
IATA	:	2.1	

14.4 Packing group

ADN
Packing group : Not assigned by regulation
Classification Code : 5F
Labels : 2.1

ADR
Packing group : Not assigned by regulation
Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)

RID
Packing group : Not assigned by regulation
Classification Code : 5F
Hazard Identification Number : 23
Labels : 2.1

IMDG
Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U

IATA (Cargo)
Packing instruction (cargo aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable Gas

IATA (Passenger)
Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable Gas

14.5 Environmental hazards

ADN
Environmentally hazardous : no

ADR
Environmentally hazardous : no

RID
Environmentally hazardous : no

IMDG

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Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Not applicable

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH)

		Quantity 1	Quantity 2
P3a	FLAMMABLE AEROSOLS	150 t	500 t
18	Liquefied flammable gases (including LPG) and natural gas	50 t	200 t

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 98.43 %

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

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Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

H220 : Extremely flammable gas.
H225 : Highly flammable liquid and vapour.
H280 : Contains gas under pressure; may explode if heated.
H302 : Harmful if swallowed.
H311 : Toxic in contact with skin.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.
H360FD : May damage fertility. May damage the unborn child.
H361d : Suspected of damaging the unborn child.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Irrit. : Eye irritation
Flam. Gas : Flammable gases
Flam. Liq. : Flammable liquids
Press. Gas : Gases under pressure
Repr. : Reproductive toxicity
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
STOT SE : Specific target organ toxicity - single exposure
2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
2017/164/EU / STEL : Short term exposure limit
2017/164/EU / TWA : Limit Value - eight hours
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Classification of the mixture:

Aerosol 1	H222, H229
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 3	H412

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be

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considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN