

SAFETY DATA SHEET

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



Tork Citrus Air Freshener Spray

Version	Revision Date:	SDS Number:	Date of last issue: 14.10.2025
1.1	02.01.2026	11574108-00003	Date of first issue: 12.09.2025

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

1.1 Product identifier

Trade name : Tork Citrus 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

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

Distributor and authorization holder
ESSITY UK LTD
Southfields Road
LU6 3EJ Dunstable
United Kingdom
+44 1582 677570

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

1.4 Emergency telephone number

Access Code: 13968
(Great Britain) +44 20 35147487
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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.

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	H229: Pressurised container: May burst if heated.
Eye irritation, Category 2	H319: Causes serious eye irritation.
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.
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 eye protection/ face protection.

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

EUH208 Contains Linalyl acetate, Geranyl formate, 2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-, 3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-, 6-Octenal, 3,7-dimethyl-, Reaction mass of geranyl acetate and neryl acetate, Undecanal, 2-methyl-, Ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate, 5(or 6)-Methyl-7(or 8)-(1-methylethyl)bicyclo[2.2.2]oct-5-ene-2-carbaldehyde, (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one, (E)-Dodec-2-en-1-al, 2,6-Octadienal, 3,7-dimethyl-, acid-isomerized. May produce an allergic reaction.

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.

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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
2,2-Dimethyl 7-octen-2-ol	18479-58-8 242-362-4	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336	>= 1 - < 10
Bornan-2-one	76-22-2 200-945-0	Flam. Sol. 2; H228 Acute Tox. 3; H301 Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Chronic 2; H411	>= 1 - < 2.5
Linalyl acetate	115-95-7 204-116-4	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0.1 - < 1
Geranyl formate	105-86-2 203-339-4	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 0.25 - < 1
2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-	106-25-2 203-378-7	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0.1 - < 1
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	68039-49-6 268-264-1	Skin Irrit. 2; H315 Skin Sens. 1B;	>= 0.25 - < 1

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	605-043-00-4	H317 Aquatic Chronic 2; H411	
Allyl hexanoate	123-68-2 204-642-4	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1	$\geq 0.25 - < 1$
6-Octenal, 3,7-dimethyl-	106-23-0 203-376-6	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	$\geq 0.1 - < 1$
4,4a,5,9b-Tetrahydroindeno[1,2-d]- 1,3-dioxin	18096-62-3 241-997-4	Repr. 2; H361f	$\geq 0.1 - < 1$
Reaction mass of geranyl acetate and neryl acetate	Not Assigned	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	$\geq 0.1 - < 0.25$
Dodecanenitrile	2437-25-4 219-440-1	Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	$\geq 0.1 - < 0.25$
Undecanal, 2-methyl-	110-41-8 203-765-0	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	$\geq 0.1 - < 0.25$
Ethyl 2,6,6-trimethylcyclohexa-1,3- ene-1-carboxylate	35044-59-8 252-335-9	Skin Sens. 1B; H317 Aquatic Chronic 3; H412	$\geq 0.1 - < 0.25$
5(or 6)-Methyl-7(or 8)-(1- methylethyl)bicyclo[2.2.2]oct-5-ene- 2-carbaldehyde	68259-31-4 269-522-6	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	$\geq 0.1 - < 0.25$
(E)-1-(2,6,6-Trimethyl-2-cyclohexen-	24720-09-0	Acute Tox. 4; H302	$\geq 0.1 - < 0.25$

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1-yl)-2-buten-1-one	246-430-4 01-2120105799-47	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
(E)-Dodec-2-en-1-al	20407-84-5 243-797-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Acute 1; H400 M-Factor (Acute aquatic toxicity): 1	>= 0.1 - < 0.25
1,6-Heptadien-3-one, 2-cyclohexyl-	313973-37-4 441-580-9	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0.1 - < 0.25
2,6-Octadienal, 3,7-dimethyl-, acid- isomerized	90480-35-6 291-768-8	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Repr. 2; H361f Aquatic Chronic 2; H411	>= 0.1 - < 0.25
Tetrahydro-4-methyl-2-(2- methylprop-1-enyl)pyran	16409-43-1 240-457-5	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361	>= 0.1 - < 1
Substances with a workplace exposure limit :			
Butane	106-97-8 203-448-7 601-004-00-0 01-2119474691-32	Flam. Gas 1A; H220 Press. Gas Liquefied gas; H280	>= 20 - < 30

For explanation of abbreviations see section 16.

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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.
Get medical attention.
- 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 : Causes serious eye irritation.

May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically and supportively.
-

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing : None known.
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media

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 : Remove all sources of ignition.
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.
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.

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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 | : | Use only with adequate 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 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. |
| 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 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 |

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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
		TWA	400 ppm 999 mg/m ³	GB EH40
Bornan-2-one	76-22-2	TWA	2 ppm 13 mg/m ³	GB EH40
		STEL	3 ppm 19 mg/m ³	GB EH40

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	267 mg/kg

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			effects	bw/day
	Consumers	Inhalation	Long-term systemic effects	114 mg/m3
Propan-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m3
	Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	89 mg/m3
	Consumers	Skin contact	Long-term systemic effects	319 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	26 mg/kg bw/day
Dipropylene glycol	Workers	Inhalation	Long-term systemic effects	238 mg/m3
	Workers	Skin contact	Long-term systemic effects	84 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	70 mg/m3
	Consumers	Skin contact	Long-term systemic effects	51 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	24 mg/kg bw/day
2,2-Dimethyl 7-octen-2-ol	Workers	Inhalation	Long-term systemic effects	24.7 mg/m3
	Workers	Skin contact	Long-term systemic effects	7 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4.35 mg/m3
	Consumers	Skin contact	Long-term systemic effects	2.5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2.5 mg/kg bw/day
Bornan-2-one	Workers	Inhalation	Long-term systemic effects	17.6316 mg/m3
	Workers	Skin contact	Long-term systemic effects	10 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4.3478 mg/m3
	Consumers	Skin contact	Long-term systemic effects	5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	5 mg/kg bw/day
Linalyl acetate	Workers	Inhalation	Long-term systemic effects	2.75 mg/m3
	Workers	Skin contact	Long-term systemic effects	2.5 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	0.2362 mg/cm2
	Workers	Skin contact	Acute local effects	0.2362 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	0.68 mg/m3

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			effects	
	Consumers	Skin contact	Long-term systemic effects	1.25 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	0.2362 mg/cm ²
	Consumers	Skin contact	Acute local effects	0.2362 mg/cm ²
	Consumers	Ingestion	Long-term systemic effects	0.2 mg/kg bw/day
2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-	Workers	Inhalation	Long-term systemic effects	5.4 mg/m ³
	Workers	Skin contact	Long-term systemic effects	0.76 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	0.133 mg/cm ²
	Consumers	Inhalation	Long-term systemic effects	1.3 mg/m ³
	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
Allyl hexanoate	Workers	Inhalation	Long-term systemic effects	15 mg/m ³
	Workers	Skin contact	Long-term systemic effects	4.3 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	3.7 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	2.1 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2.1 mg/kg bw/day
6-Octenal, 3,7-dimethyl-	Workers	Inhalation	Long-term systemic effects	9 mg/m ³
	Workers	Skin contact	Long-term systemic effects	1.7 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	0.140 mg/cm ²
	Consumers	Inhalation	Long-term systemic effects	2.7 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	0.140 mg/cm ²
	Consumers	Ingestion	Long-term systemic effects	0.6 mg/kg bw/day
4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin	Workers	Inhalation	Long-term systemic effects	0.43 mg/m ³
	Workers	Skin contact	Long-term systemic effects	0.12 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.076 mg/m ³

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	Consumers	Skin contact	Long-term systemic effects	0.044 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.044 mg/kg bw/day
Reaction mass of geranyl acetate and neryl acetate	Workers	Inhalation	Long-term systemic effects	62.59 mg/m3
	Workers	Skin contact	Long-term systemic effects	35.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	15.4 mg/m3
	Consumers	Skin contact	Long-term systemic effects	17.75 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	8.9 mg/kg bw/day
Dodecanenitrile	Workers	Inhalation	Long-term systemic effects	14 mg/m3
	Workers	Skin contact	Long-term systemic effects	3.98 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2.1 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1.42 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1.42 mg/kg bw/day
Undecanal, 2-methyl-	Workers	Inhalation	Long-term systemic effects	36.89 mg/m3
	Workers	Inhalation	Acute systemic effects	352.63 mg/m3
	Workers	Inhalation	Long-term local effects	92.21 mg/m3
	Workers	Inhalation	Acute local effects	881.58 mg/m3
	Workers	Skin contact	Long-term systemic effects	10.46 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	100 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	35.7 mg/cm2
	Workers	Skin contact	Acute local effects	71.43 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	9.1 mg/m3
	Consumers	Inhalation	Acute systemic effects	86.96 mg/m3
	Consumers	Inhalation	Long-term local effects	22.74 mg/m3
	Consumers	Inhalation	Acute local effects	217.39 mg/m3
	Consumers	Skin contact	Long-term systemic effects	5.23 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	50 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	17.86 mg/cm2

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	Consumers	Skin contact	Acute local effects	35.71 mg/cm ²
	Consumers	Ingestion	Long-term systemic effects	5.23 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	25 mg/kg bw/day
(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	Workers	Inhalation	Long-term systemic effects	2.74 mg/m ³
	Workers	Skin contact	Long-term systemic effects	0.78 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.67 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	0.39 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.39 mg/kg bw/day
2,6-Octadienal, 3,7-dimethyl-, acid-isomerized	Workers	Inhalation	Long-term systemic effects	2.6 mg/m ³
	Workers	Skin contact	Long-term systemic effects	0.75 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.62 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
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	Workers	Inhalation	Long-term systemic effects	1.2 mg/m ³
	Workers	Skin contact	Long-term systemic effects	0.3 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.3 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	0.2 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.2 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.)
	Oral (Secondary Poisoning)	380 mg/kg food

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Propan-2-ol	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.)
	Soil	28 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	160 mg/kg food
	Dipropylene glycol	Fresh water
Marine water		0.01 mg/l
Intermittent use/release		1 mg/l
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
2,2-Dimethyl 7-octen-2-ol		Fresh water
	Freshwater - intermittent	0.278 mg/l
	Marine water	0.00278 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.594 mg/kg dry weight (d.w.)
	Marine sediment	0.059 mg/kg dry weight (d.w.)
	Soil	0.103 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	111 mg/kg food
	Bornan-2-one	Fresh water
Freshwater - intermittent		17.1 µg/l
Marine water		0.171 µg/l
Marine water - intermittent		1.71 µg/l
Sewage treatment plant		1 mg/l
Fresh water sediment		0.139 mg/kg dry weight (d.w.)
Marine sediment		0.017 mg/kg dry weight (d.w.)
Soil		0.013 mg/kg dry weight (d.w.)
Linalyl acetate		Fresh water
	Freshwater - intermittent	0.11 mg/l
	Marine water	0.0011 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.609 mg/kg dry weight (d.w.)
	Marine sediment	0.0609 mg/kg dry weight (d.w.)

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	Soil	0.115 mg/kg dry weight (d.w.)
2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-	Fresh water	7.45 µg/l
	Marine water	0.745 µg/l
	Intermittent use/release	74.5 µg/l
	Sewage treatment plant	12.9 mg/l
	Fresh water sediment	0.133 mg/kg
	Marine sediment	0.0133 mg/kg
	Soil	0.0223 mg/kg
Allyl hexanoate	Fresh water	117 mg/l
	Marine water	11.7 mg/l
	Intermittent use/release	1170 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	4460 mg/kg
	Marine sediment	446 mg/kg
	Soil	825 mg/kg
6-Octenal, 3,7-dimethyl-	Oral (Secondary Poisoning)	47.56 mg/kg food
	Fresh water	0.009 mg/l
	Freshwater - intermittent	0.087 mg/l
	Marine water	0.001 mg/l
	Sewage treatment plant	4 mg/l
	Fresh water sediment	0.159 mg/kg dry weight (d.w.)
	Marine sediment	0.016 mg/kg dry weight (d.w.)
Reaction mass of geranyl acetate and neryl acetate	Soil	0.027 mg/kg dry weight (d.w.)
	Fresh water	3.72 µg/l
	Marine water	0.372 µg/l
	Intermittent use/release	37.2 µg/l
	Sewage treatment plant	8 mg/l
	Fresh water sediment	0.442 mg/kg
	Marine sediment	0.0442 mg/kg
Dodecanenitrile	Soil	0.0859 mg/kg
	Fresh water	1.08 µg/l
	Freshwater - intermittent	0.59 µg/l
	Marine water	0.108 µg/l
	Marine water - intermittent	59 ng/l
	Sewage treatment plant	0.001 mg/l
	Fresh water sediment	0.208 mg/kg dry weight (d.w.)
Undecanal, 2-methyl-	Marine sediment	0.0208 mg/kg dry weight (d.w.)
	Soil	0.0409 mg/kg dry weight (d.w.)
	Fresh water	0.66 µg/l
	Freshwater - intermittent	1.8 µg/l
	Marine water	66 ng/l
	Marine water - intermittent	0.18 µg/l

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	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.265 mg/kg dry weight (d.w.)
	Marine sediment	0.0265 mg/kg dry weight (d.w.)
	Soil	0.0526 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	116 mg/kg food
(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	Fresh water	0.658 µg/l
	Freshwater - intermittent	6.58 µg/l
	Marine water	0.066 µg/l
	Sewage treatment plant	3.2 mg/l
	Fresh water sediment	0.064 mg/kg dry weight (d.w.)
	Marine sediment	0.006 mg/kg dry weight (d.w.)
	Soil	0.012 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	6.67 mg/kg food
2,6-Octadienal, 3,7-dimethyl-, acid-isomerized	Fresh water	0.004 mg/l
	Freshwater - intermittent	0.043 mg/l
	Marine water	0.000431 mg/l
	Sewage treatment plant	0.29 mg/l
	Fresh water sediment	0.457 mg/kg dry weight (d.w.)
	Marine sediment	0.046 mg/kg dry weight (d.w.)
	Soil	0.09 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	10 mg/kg food
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	Fresh water	0.0332 mg/l
	Marine water	0.00332 mg/l
	Intermittent use/release	0.332 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	2.29 mg/kg
	Marine sediment	0.229 mg/kg
	Soil	0.437 mg/kg

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

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

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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 resistance 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

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Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Extremely flammable aerosol.
Upper explosion limit / Upper flammability limit	:	19 %(V)
Lower explosion limit / Lower flammability limit	:	1.8 %(V)
Vapour pressure	:	4,000 hPa (20 °C)
Relative vapour density	:	Not applicable
Density	:	0.633 g/cm ³ (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
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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.
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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.

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

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

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:

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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

2,2-Dimethyl 7-octen-2-ol:

Acute oral toxicity : LD50 (Rat): 3,020 mg/kg

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

Bornan-2-one:

Acute oral toxicity : LD50 (Mouse): 1,310 mg/kg

Acute toxicity estimate (Humans): > 50 - 500 mg/kg
Method: Expert judgement

Acute inhalation toxicity : LC50 (Rat): > 0.5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

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

Linalyl acetate:

Acute oral toxicity : LD50 (Rat): > 9,000 mg/kg

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

Geranyl formate:

Acute oral toxicity : LD50 (Rat): > 5,532 mg/kg

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

2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-:

Acute oral toxicity : LD50 (Rat): 4,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 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

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Allyl hexanoate:

Acute oral toxicity : LD50 (Rat): 218 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Expert judgement

Acute dermal toxicity : LD50 (Rabbit): 820 mg/kg

6-Octenal, 3,7-dimethyl-:

Acute oral toxicity : LD50 (Rat, female): 2,150 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,500 - 5,000 mg/kg

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401

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 geranyl acetate and neryl acetate:

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
Remarks: Based on data from similar materials

Dodecanenitrile:

Acute oral toxicity : LD50 (Rat): 3,400 mg/kg
Method: OECD Test Guideline 401

Undecanal, 2-methyl-:

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

Acute dermal toxicity : LD50 (Rabbit): > 8,280 mg/kg

Ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg
Method: OECD Test Guideline 423
Assessment: The substance or mixture has no acute oral toxicity

5(or 6)-Methyl-7(or 8)-(1-methylethyl)bicyclo[2.2.2]oct-5-ene-2-carbaldehyde:

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Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: The test was conducted equivalent or similar to guideline

(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one:

Acute oral toxicity : LD50 (Rat, female): 1,500 mg/kg

Acute dermal toxicity : LD50 (Rat, female): 2,150 - 2,780 mg/kg

(E)-Dodec-2-en-1-al:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

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

1,6-Heptadien-3-one, 2-cyclohexyl-:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat): > 5.22 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 436

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

2,6-Octadienal, 3,7-dimethyl-, acid-isomerized:

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

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

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

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

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

Butane:

Acute inhalation toxicity : LC50 (Rat): 570000 ppm

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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

2,2-Dimethyl 7-octen-2-ol:

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

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 431

Result : Skin irritation

Bornan-2-one:

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

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 431

Result : Skin irritation

Linalyl acetate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

Geranyl formate:

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

Result : No skin irritation

2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-:

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Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

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

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

Allyl hexanoate:

Species : reconstructed human epidermis (RhE)
Method : Regulation (EC) No. 440/2008, Annex, B.46
Result : No skin irritation

6-Octenal, 3,7-dimethyl-:

Species : Rabbit
Result : Skin irritation

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

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

Reaction mass of geranyl acetate and neryl acetate:

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

Dodecanenitrile:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

Undecanal, 2-methyl-:

Species : Rabbit
Result : Skin irritation

Ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate:

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

5(or 6)-Methyl-7(or 8)-(1-methylethyl)bicyclo[2.2.2]oct-5-ene-2-carbaldehyde:

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Species : Rabbit
Method : OECD Test Guideline 404
Result : Mild skin irritation
Remarks : The test was conducted according to guideline

(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one:

Species : Rabbit
Result : No skin irritation

(E)-Dodec-2-en-1-al:

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

Result : Skin irritation

1,6-Heptadien-3-one, 2-cyclohexyl-:

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

2,6-Octadienal, 3,7-dimethyl-, acid-isomerized:

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

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 431

Result : Skin irritation

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

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

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2,2-Dimethyl 7-octen-2-ol:

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

Bornan-2-one:

Species : Bovine cornea
Method : OECD Test Guideline 437
Result : Irreversible effects on the eye

Linalyl acetate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritation to eyes, reversing within 21 days
Remarks : Based on data from similar materials

Geranyl formate:

Species : Tissue Culture
Method : OECD Test Guideline 437
Assessment : No eye irritation

2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-:

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

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

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

Allyl hexanoate:

Species : Rabbit
Result : No eye irritation

6-Octenal, 3,7-dimethyl-:

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

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Species : Tissue Culture
Method : OECD Test Guideline 492
Result : No eye irritation

Reaction mass of geranyl acetate and neryl acetate:

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Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
Remarks : Based on data from similar materials

Dodecanenitrile:

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

Undecanal, 2-methyl-:

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

Ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate:

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

5(or 6)-Methyl-7(or 8)-(1-methylethyl)bicyclo[2.2.2]oct-5-ene-2-carbaldehyde:

Result : No eye irritation

(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one:

Species : Rabbit
Result : No eye irritation

(E)-Dodec-2-en-1-al:

Species : Rabbit
Result : Irritation to eyes, reversing within 7 days
Remarks : Based on data from similar materials

2,6-Octadienal, 3,7-dimethyl-, acid-isomerized:

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

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

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

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

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Respiratory sensitisation

Not classified based on available information.

Components:

Ethanol:

Test Type : Mouse ear swelling test (MEST)
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

2,2-Dimethyl 7-octen-2-ol:

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

Bornan-2-one:

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

Linalyl 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

Geranyl formate:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 442B
Result : positive

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Test Type : Direct Peptide Reactivity Assay (DPRA)
Method : OECD Test Guideline 442C
Result : positive

Test Type : Dendritic cell activation test
Method : OECD Test Guideline 442E
Result : positive

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

2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-:

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

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

Allyl hexanoate:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : negative
Remarks : Based on data from similar materials

6-Octenal, 3,7-dimethyl-:

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

Assessment : Probability or evidence of skin sensitisation in humans

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

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Test Type : KeratinoSens assay
Exposure routes : Skin contact
Method : OECD Test Guideline 442D
Result : negative

Test Type : Direct Peptide Reactivity Assay (DPRA)
Exposure routes : Skin contact
Method : OECD Test Guideline 442C
Result : negative

Assessment : Does not cause skin sensitisation.

Reaction mass of geranyl acetate and neryl acetate:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : positive
Remarks : Based on data from similar materials

Assessment : Probability or evidence of skin sensitisation in humans

Dodecanenitrile:

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

Undecanal, 2-methyl-:

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

Ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate:

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

5(or 6)-Methyl-7(or 8)-(1-methylethyl)bicyclo[2.2.2]oct-5-ene-2-carbaldehyde:

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Test Type : Open epicutaneous test
Exposure routes : Skin contact
Species : Guinea pig
Result : positive

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

(E)-1-(2,6,6-Trimethyl-2-cyclohexen-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 low to moderate skin sensitisation rate in humans

(E)-Dodec-2-en-1-al:

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

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

1,6-Heptadien-3-one, 2-cyclohexyl-:

Test Type : Human repeat insult patch test (HRIPT)
Exposure routes : Skin contact
Species : Humans
Result : negative

2,6-Octadienal, 3,7-dimethyl-, acid-isomerized:

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

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

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

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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

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

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

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

2,2-Dimethyl 7-octen-2-ol:

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

Bornan-2-one:

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

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Result: negative

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

Test Type: in vitro micronucleus test
Method: OECD Test Guideline 487
Result: positive

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow
cytogenetic test, chromosomal analysis)
Species: Mouse
Application Route: Ingestion
Result: negative

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

Linalyl acetate:

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
Result: negative
Remarks: Based on data from similar materials

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

Geranyl formate:

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
Remarks: Based on data from similar materials

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Test Type: in vitro micronucleus test
Method: OECD Test Guideline 487
Result: negative
Remarks: Based on data from similar materials

2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
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
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Allyl hexanoate:

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

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Mouse
Application Route: Intraperitoneal
Result: negative

6-Octenal, 3,7-dimethyl-:

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

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

Test Type: in vitro micronucleus test
Method: OECD Test Guideline 487
Result: negative

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

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

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: in vitro micronucleus test
Method: OECD Test Guideline 487
Result: negative

Reaction mass of geranyl acetate and neryl 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

Dodecanenitrile:

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

Undecanal, 2-methyl-:

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 490
Result: negative

Test Type: in vitro micronucleus test
Method: OECD Test Guideline 487
Result: negative

Ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate:

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

5(or 6)-Methyl-7(or 8)-(1-methylethyl)bicyclo[2.2.2]oct-5-ene-2-carbaldehyde:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: The test was conducted according to guideline

(E)-1-(2,6,6-Trimethyl-2-cyclohexen-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
Result: negative
Remarks: Based on data from similar materials

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

(E)-Dodec-2-en-1-al:

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

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

1,6-Heptadien-3-one, 2-cyclohexyl-:

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: positive

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

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2,6-Octadienal, 3,7-dimethyl-, acid-isomerized:

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: in vitro micronucleus test
Method: OECD Test Guideline 487
Result: negative

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

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: Ingestion
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.

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Components:

Propan-2-ol:

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

6-Octenal, 3,7-dimethyl-:

Species : Rat
Application Route : Ingestion
Exposure time : 104 - 105 weeks
Result : negative
Remarks : Based on data from similar materials

Species : Mouse
Application Route : Ingestion
Exposure time : 104 - 105 weeks
Result : negative
Remarks : Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

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

2,2-Dimethyl 7-octen-2-ol:

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

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Bornan-2-one:

Effects on foetal development : Test Type: Fertility/early embryonic development
Species: Rat
Application Route: Ingestion
Result: negative

Linalyl acetate:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

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

Geranyl formate:

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
Remarks: Based on data from similar materials

2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-:

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

Allyl hexanoate:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test
Species: Rat

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Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative
Remarks: Based on data from similar materials

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

6-Octenal, 3,7-dimethyl-:

Effects on fertility : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 443
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 443
Result: negative
Remarks: Based on data from similar materials

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

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

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and
fertility, based on animal experiments.

Reaction mass of geranyl acetate and neryl acetate:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening
test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421

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Result: negative

Effects on foetal development : Test Type: Reproduction/Developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative

Dodecanenitrile:

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

Undecanal, 2-methyl-:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative

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

(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one:

Effects on fertility : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 443
Result: negative
Remarks: Based on data from similar materials

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

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Remarks: Based on data from similar materials

2,6-Octadienal, 3,7-dimethyl-, acid-isomerized:

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

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

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

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

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
Result: negative

STOT - single exposure

Not classified based on available information.

Components:

Propan-2-ol:

Assessment : May cause drowsiness or dizziness.

2,2-Dimethyl 7-octen-2-ol:

Assessment : May cause drowsiness or dizziness.

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Bornan-2-one:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Components:

Linalyl acetate:

Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.
Remarks : Based on data from similar materials

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

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

2,2-Dimethyl 7-octen-2-ol:

Species : Rat
LOAEL : > 100 mg/kg
Application Route : Ingestion
Exposure time : 90 Days
Method : OECD Test Guideline 408
Remarks : Based on data from similar materials

Bornan-2-one:

Species : Rat
NOAEL : 250 mg/kg
Application Route : Skin contact
Exposure time : 13 Weeks

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Linalyl acetate:

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

Species : Rat
NOAEL : > 100 mg/kg
Application Route : Skin contact
Exposure time : 91 Days
Remarks : Based on data from similar materials

Geranyl formate:

Species : Rat
NOAEL : > 100 mg/kg
Application Route : Ingestion
Exposure time : 13 Weeks
Remarks : Based on data from similar materials

2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-:

Species : Rat
NOAEL : 374 mg/kg
Application Route : Ingestion
Exposure time : 54 Days
Method : OECD Test Guideline 422

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

Allyl hexanoate:

Species : Rat
NOAEL : > 2,500 mg/kg
Application Route : Ingestion
Exposure time : 52 Weeks

6-Octenal, 3,7-dimethyl-:

Species : Rat
LOAEL : > 100 mg/kg
Application Route : Ingestion
Exposure time : 14 Weeks
Remarks : Based on data from similar materials

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4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Species : Rat
NOAEL : 20 mg/kg
Application Route : Ingestion
Exposure time : 42 Days
Method : OECD Test Guideline 422

Dodecanenitrile:

Species : Rat
NOAEL : 50 mg/kg
LOAEL : 250 mg/kg
Application Route : Ingestion
Exposure time : 28 - 54 Days
Method : OECD Test Guideline 422

Undecanal, 2-methyl-:

Species : Rat, male
NOAEL : $\geq 1,046$ mg/kg
Application Route : Ingestion
Exposure time : 90 Days
Method : OECD Test Guideline 408

(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one:

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

1,6-Heptadien-3-one, 2-cyclohexyl-:

Species : Rat
NOAEL : 200 mg/kg
LOAEL : 800 mg/kg
Application Route : Ingestion
Exposure time : 28 Days

2,6-Octadienal, 3,7-dimethyl-, acid-isomerized:

Species : Rat
NOAEL : 150 mg/kg
Application Route : Ingestion
Exposure time : 50 Days
Method : OECD Test Guideline 422

Butane:

Species : Rat
NOAEL : ≥ 9000 ppm
Application Route : inhalation (gas)
Exposure time : 6 Weeks

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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 toxicity) : NOEC: \geq 79 mg/l
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

2,2-Dimethyl 7-octen-2-ol:

Toxicity to fish : LC50 : > 10 - 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 38 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 80 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 25 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Bornan-2-one:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 33.25 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.23 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.71 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.032 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Linalyl acetate:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 11 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h

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EC10 (Desmodesmus subspicatus (green algae)): > 1 mg/l
Exposure time: 72 h

Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 : > 1,000 mg/l
Exposure time: 30 min
Method: ISO 8192

Geranyl formate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.3 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)): 0.23 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201

EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.15 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 20.3 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 32.4 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 9.54 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 : 241 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1 - 10 mg/l

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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

Allyl hexanoate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.117 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 4.6 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): 0.255 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

6-Octenal, 3,7-dimethyl-:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 22 mg/l
Exposure time: 96 h
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 8.7 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)): 13.33 mg/l
Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)): 4.52 mg/l

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Exposure time: 72 h

Toxicity to microorganisms : EC10 (*Pseudomonas putida*): 650 mg/l
Exposure time: 30 min

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l
aquatic invertebrates Exposure time: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 100
plants mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (*Pseudokirchneriella subcapitata* (green algae)): > 100
mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC : > 2.9 mg/l
Exposure time: 14 d

Reaction mass of geranyl acetate and neryl acetate:

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): 68.12 mg/l
Exposure time: 96 h
Method: DIN 38412
Remarks: Based on data from similar materials

Toxicity to daphnia and other : EC50 (*Daphnia magna* (Water flea)): 14.1 mg/l
aquatic invertebrates Exposure time: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic : ErC50 (*Desmodesmus subspicatus* (green algae)): 3.72 mg/l
plants Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (*Desmodesmus subspicatus* (green algae)): 0.585 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 : > 800 mg/l
Exposure time: 30 min
Method: ISO 8192
Remarks: Based on data from similar materials

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Dodecanenitrile:

- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 0.84 mg/l
Exposure time: 96 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.059 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)): 0.15 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201
- NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.054 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to microorganisms : EC50 (Tetrahymena pyriformis): 0.013 mg/l
Exposure time: 40 h
- M-Factor (Chronic aquatic toxicity) : 10

Undecanal, 2-methyl-:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.35 mg/l
Exposure time: 96 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.21 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)): 0.18 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201
- NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.089 mg/l
Exposure time: 72 h

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Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC10 (activated sludge): > 1 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 33 µg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

Ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 17.4 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): 8.9 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (microalgae)): 1.6 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

5(or 6)-Methyl-7(or 8)-(1-methylethyl)bicyclo[2.2.2]oct-5-ene-2-carbaldehyde:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.7 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: The test was conducted according to guideline

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 1.449 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: The test was conducted according to guideline

EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.616 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: The test was conducted according to guideline

(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one:

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Toxicity to fish : LC50 (*Oryzias latipes* (Japanese medaka)): 0.628 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 2.37 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (*Raphidocelis subcapitata* (freshwater green alga)): 4.56 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (*Raphidocelis subcapitata* (freshwater green alga)): 0.768 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

(E)-Dodec-2-en-1-ol:

Toxicity to fish : LC50 (*Oryzias latipes* (Japanese medaka)): 0.718 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: The test was conducted according to guideline

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 4.76 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

NOEC (*Pseudokirchneriella subcapitata* (green algae)): > 1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

M-Factor (Acute aquatic toxicity) : 1

1,6-Heptadien-3-one, 2-cyclohexyl-:

Toxicity to fish : LC50 (*Cyprinus carpio* (Carp)): 0.95 mg/l
Exposure time: 96 h

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Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.1 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 2.7 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.78 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC10 (activated sludge): > 10 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

M-Factor (Chronic aquatic toxicity) : 1

2,6-Octadienal, 3,7-dimethyl-, acid-isomerized:

Toxicity to fish : LL50 (Danio rerio (zebra fish)): > 4.31 mg/l
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4.31 mg/l
Exposure time: 48 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 6.9 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201

EL10 (Pseudokirchneriella subcapitata (green algae)): 4.09 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 77.6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 33.2 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 79.7 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 39.1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 : > 1,000 mg/l
Exposure time: 180 min
Method: OECD Test Guideline 209

12.2 Persistence and degradability

Components:

Ethanol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 84 %
Exposure time: 20 d

Propan-2-ol:

Biodegradability : Result: rapidly degradable

BOD/COD : BOD: 1,19 (BOD5)
COD: 2,23
BOD/COD: 53 %

2,2-Dimethyl 7-octen-2-ol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 72 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Bornan-2-one:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 77 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Linalyl acetate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 70 - 80 %

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Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: The test was conducted according to guideline

Geranyl formate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

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

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

Allyl hexanoate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 70 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

6-Octenal, 3,7-dimethyl-:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 83 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 5 %
Exposure time: 28 d
Method: Directive 67/548/EEC Annex V, C.4.E.

Reaction mass of geranyl acetate and neryl acetate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 28 d

Dodecanenitrile:

Biodegradability : Result: Readily biodegradable.

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Biodegradation: > 60 %
Exposure time: 28 d

Undecanal, 2-methyl-:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 68 %
Exposure time: 22 d
Method: OECD Test Guideline 301F

Ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

5(or 6)-Methyl-7(or 8)-(1-methylethyl)bicyclo[2.2.2]oct-5-ene-2-carbaldehyde:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 1 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: The test was conducted according to guideline

(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 56 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

(E)-Dodec-2-en-1-al:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: The test was conducted according to guideline

1,6-Heptadien-3-one, 2-cyclohexyl-:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 61 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

2,6-Octadienal, 3,7-dimethyl-, acid-isomerized:

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 42 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

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Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 28 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

2,2-Dimethyl 7-octen-2-ol:

Partition coefficient: n-octanol/water : log Pow: 3.25
Method: OECD Test Guideline 117

Bornan-2-one:

Partition coefficient: n-octanol/water : log Pow: 2.414
Method: OECD Test Guideline 107

Linalyl acetate:

Partition coefficient: n-octanol/water : log Pow: 3.9
Method: OECD Test Guideline 107

Geranyl formate:

Partition coefficient: n-octanol/water : log Pow: 4.1
Method: OECD Test Guideline 117

2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-:

Partition coefficient: n-octanol/water : log Pow: 2.76

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

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

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Allyl hexanoate:

Partition coefficient: n-octanol/water : log Pow: 3.191

6-Octenal, 3,7-dimethyl-:

Partition coefficient: n-octanol/water : log Pow: 3.62

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Partition coefficient: n-octanol/water : log Pow: 1.76

Reaction mass of geranyl acetate and neryl acetate:

Partition coefficient: n-octanol/water : log Pow: > 4

Dodecanenitrile:

Partition coefficient: n-octanol/water : log Pow: 4.9
Remarks: Calculation

Undecanal, 2-methyl-:

Partition coefficient: n-octanol/water : log Pow: 4.9
Method: OECD Test Guideline 117

Ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate:

Partition coefficient: n-octanol/water : log Pow: 3.9
Method: OECD Test Guideline 117

5(or 6)-Methyl-7(or 8)-(1-methylethyl)bicyclo[2.2.2]oct-5-ene-2-carbaldehyde:

Partition coefficient: n-octanol/water : log Pow: > 4
Method: OECD Test Guideline 117
Remarks: The test was conducted according to guideline

(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 8.4 - 20
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 3.66
Method: OECD Test Guideline 123

(E)-Dodec-2-en-1-al:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): < 500
Remarks: Based on data from similar materials

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Partition coefficient: n-octanol/water : log Pow: 4.89

1,6-Heptadien-3-one, 2-cyclohexyl-:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 370
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 4.9
Method: OECD Test Guideline 117

2,6-Octadienal, 3,7-dimethyl-, acid-isomerized:

Partition coefficient: n-octanol/water : log Pow: > 4
Method: OECD Test Guideline 117

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Partition coefficient: n-octanol/water : log Pow: 3.3

Butane:

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

12.4 Mobility in soil

Components:

Ethanol:

Distribution among environmental compartments : log Koc: 0.2

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:

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.

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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 |
|------|-------|------------------|
| ADN | : 2 | 2.1 |
| ADR | : 2 | 2.1 |
| RID | : 2 | 2.1 |
| IMDG | : 2.1 | |

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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

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

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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
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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: 96.31 %

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.

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.

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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.
H228 : Flammable solid.
H280 : Contains gas under pressure; may explode if heated.
H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H311 : Toxic in contact with skin.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H331 : Toxic if inhaled.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H361 : Suspected of damaging fertility or the unborn child.
H361f : Suspected of damaging fertility.
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 Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Flam. Gas : Flammable gases
Flam. Liq. : Flammable liquids
Flam. Sol. : Flammable solids
Press. Gas : Gases under pressure
Repr. : Reproductive toxicity
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
STOT SE : Specific target organ toxicity - single exposure
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-

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ing 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
Aquatic Chronic 3	H412

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method

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 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.

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