

SAFETY DATA SHEET

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



Tork Tropical Fruit Air Freshener Spray

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 29.09.2025 |
| 1.1 | 02.01.2026 | 11574232-00003 | 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 Tropical Fruit 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
(United Kingdom) 800 680 0425
(UK English) +44 8 08 189 0979

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.

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.
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.

Storage:

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

EUH208 Contains 3,7-Dimethylnona-1,6-dien-3-ol, Linalyl acetate, Bulnesia sarmienti, ext., acetate, p-tert-Butylcyclohexyl Acetate, Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-, 2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-, Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-. 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. | Classification | Concentration |
|---------------|---------|----------------|---------------|
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| | EC-No. Index-No. Registration number | | (% w/w) |
|---|--|---|---------------|
| Ethanol | 64-17-5 200-578-6 603-002-00-5 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 <hr/> 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 |
| Linalyl acetate | 115-95-7 204-116-4 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 | >= 0.1 - < 1 |
| 3,7-Dimethylnona-1,6-dien-3-ol | 10339-55-6 233-732-6 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 | >= 0.1 - < 1 |
| 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 <hr/> M-Factor (Acute aquatic toxicity): 1 | >= 0.25 - < 1 |
| Bulnesia sarmienti, ext., acetate | 94333-88-7 305-067-2 | Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | >= 0.25 - < 1 |
| p-tert-Butylcyclohexyl Acetate | 32210-23-4 250-954-9 | Skin Sens. 1B; H317 | >= 0.1 - < 1 |
| Ethanone, 1-(1,2,3,4,5,6,7,8- octahydro-2,3,8,8-tetramethyl-2- naphthalenyl)- | 54464-57-2 259-174-3 | Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 1; H410 | >= 0.25 - < 1 |

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| | | M-Factor (Chronic aquatic toxicity): 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 | $\geq 0.1 - < 1$ |
| Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]- | 32388-55-9 251-020-3 | Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | $\geq 0.1 - < 0.25$ |
| 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 | $\geq 20 - < 30$ |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : No information available.
- Protection of first-aiders : No special precautions are necessary for first aid responders.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
- In case of skin contact : Wash with water and soap as a precaution.
Get medical attention if symptoms occur.
- In case of eye contact : Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

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Symptoms : No information available.

Risks : 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 media : None known.

5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products : Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. 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.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

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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.
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 : Avoid prolonged or repeated contact with skin.
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.

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Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. 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
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 | GB EH40 |

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|--|--|--|-----------|--|
| | | | 999 mg/m3 | |
|--|--|--|-----------|--|

Derived No Effect Level (DNEL)

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|--------------------------------|-----------|-----------------|----------------------------|------------------|
| Ethanol | Workers | Inhalation | Long-term systemic effects | 380 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 267 mg/kg 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 |
| 3,7-Dimethylnona-1,6-dien-3-ol | Workers | Inhalation | Long-term systemic effects | 3 mg/m3 |
| | Workers | Inhalation | Acute systemic effects | 18 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 2.7 mg/kg bw/day |
| | Workers | Skin contact | Acute systemic effects | 5.5 mg/kg bw/day |
| | Workers | Skin contact | Long-term local effects | 1.6 mg/cm2 |
| | Workers | Skin contact | Acute local effects | 1.6 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 0.74 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 4.4 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 1.4 mg/kg bw/day |
| | Consumers | Skin contact | Acute systemic effects | 2.7 mg/kg bw/day |

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| | | | | |
|---|-----------|--------------|----------------------------|---------------------------|
| | Consumers | Skin contact | Long-term local effects | 1.6 mg/cm ² |
| | Consumers | Skin contact | Acute local effects | 1.6 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 0.2 mg/kg bw/day |
| | Consumers | Ingestion | Acute systemic effects | 1.3 mg/kg bw/day |
| Linalyl acetate | Workers | Inhalation | Long-term systemic effects | 2.75 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 2.5 mg/kg bw/day |
| | Workers | Skin contact | Long-term local effects | 0.2362 mg/cm ² |
| | Workers | Skin contact | Acute local effects | 0.2362 mg/cm ² |
| | Consumers | Inhalation | Long-term systemic effects | 0.68 mg/m ³ |
| | 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 |
| 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 |
| Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)- | Workers | Inhalation | Long-term systemic effects | 30 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 28.7 mg/kg bw/day |
| | Workers | Skin contact | Long-term local effects | 0.648 mg/cm ² |
| | Consumers | Inhalation | Long-term systemic effects | 9 mg/m ³ |
| | Consumers | Skin contact | Long-term systemic effects | 17.2 mg/kg bw/day |
| | Consumers | Skin contact | Long-term local effects | 0.380 mg/cm ² |
| | Consumers | Ingestion | Long-term systemic | 3 mg/kg |

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| | | | effects | bw/day |
|--|-----------|--------------|----------------------------|--------------------|
| 2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)- | Workers | Inhalation | Long-term systemic effects | 5.4 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 0.76 mg/kg bw/day |
| | Workers | Skin contact | Long-term local effects | 0.133 mg/cm2 |
| | Consumers | Inhalation | Long-term systemic effects | 1.3 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 0.38 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 0.38 mg/kg bw/day |
| Ethanone, 1- [(3R,3aR,7R,8aS)- 2,3,4,7,8,8a- hexahydro-3,6,8,8- tetramethyl-1H-3a,7- methanoazulen-5-yl]- | Workers | Inhalation | Long-term systemic effects | 1.175 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 0.333 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 0.289 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 0.167 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 0.167 mg/kg bw/day |

Predicted No Effect Concentration (PNEC)

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

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| Dipropylene glycol | Fresh water | 0.1 mg/l |
| | 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.) |
| 3,7-Dimethylnona-1,6-dien-3-ol | Oral (Secondary Poisoning) | 313 mg/kg food |
| | Fresh water | 0.023 mg/l |
| | Freshwater - intermittent | 0.23 mg/l |
| | Marine water | 0.0023 mg/l |
| | Sewage treatment plant | 10 mg/l |
| | Fresh water sediment | 0.223 mg/kg dry weight (d.w.) |
| | Marine sediment | 0.0223 mg/kg dry weight (d.w.) |
| Linalyl acetate | Soil | 0.031 mg/kg dry weight (d.w.) |
| | Oral (Secondary Poisoning) | 8.53 mg/kg food |
| | Fresh water | 0.011 mg/l |
| | 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.) |
| Allyl hexanoate | Marine sediment | 0.0609 mg/kg dry weight (d.w.) |
| | Soil | 0.115 mg/kg dry weight (d.w.) |
| | Oral (Secondary Poisoning) | 47.56 mg/kg food |
| | Fresh water | 117 mg/l |
| | Marine water | 11.7 mg/l |
| | Intermittent use/release | 1170 mg/l |
| | Sewage treatment plant | 10 mg/l |
| p-tert-Butylcyclohexyl Acetate | Fresh water sediment | 4460 mg/kg |
| | Marine sediment | 446 mg/kg |
| | Soil | 825 mg/kg |
| | Freshwater - intermittent | 0.053 mg/l |
| | Sewage treatment plant | 12.2 mg/l |
| | Fresh water sediment | 2.01 mg/kg dry weight (d.w.) |
| | Marine sediment | 0.21 mg/kg dry weight (d.w.) |
| Soil | Soil | 0.42 mg/kg dry weight (d.w.) |
| | Oral (Secondary Poisoning) | 66.67 mg/kg food |

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| Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)- | Fresh water | 4.4 µg/l |
| | Marine water | 0.44 µg/l |
| | Sewage treatment plant | 10 mg/l |
| | Fresh water sediment | 3.73 mg/kg dry weight (d.w.) |
| | Marine sediment | 0.75 mg/kg dry weight (d.w.) |
| | Soil | 2.7 mg/kg dry weight (d.w.) |
| 2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)- | Oral (Secondary Poisoning) | 26.7 mg/kg food |
| | 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 |
| Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]- | Marine sediment | 0.0133 mg/kg |
| | Soil | 0.0223 mg/kg |
| | Fresh water | 1.74 µg/l |
| | Freshwater - intermittent | 8.6 µg/l |
| | Marine water | 0.174 µg/l |
| | Sewage treatment plant | 10 mg/l |
| | Fresh water sediment | 24.4 mg/kg dry weight (d.w.) |
| | Marine sediment | 2.44 mg/kg dry weight (d.w.) |
| | Soil | 4.87 mg/kg dry weight (d.w.) |
| | | |

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 glasses
Equipment should conform to BS EN 166

Hand protection

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Take note that the product is flammable, which may impact the selection of hand

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- protection. Wash hands before breaks and at the end of workday.
- Skin and body protection : 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.
- 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 : fruity
- Odour Threshold : No data available
- pH : Solvent mixture; pH value determination not possible, no aqueous solution
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : Not applicable
- Flash point : Not applicable
- Evaporation rate : Not applicable
- Flammability (solid, gas) : Extremely flammable aerosol.
- Upper explosion limit / Upper flammability limit : 19 %(V)
(20 °C)
- Lower explosion limit / Lower flammability limit : 1.8 %(V)
(20 °C)
- Vapour pressure : 4,000 hPa (20 °C)
- Relative vapour density : Not applicable

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| | | |
|--|---|--|
| Density | : | 0.633 g/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 |
|---------------|---|----------------|

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

| | | |
|---------------------|---|--------------------------|
| Conditions to avoid | : | Heat, flames and sparks. |
|---------------------|---|--------------------------|

10.5 Incompatible materials

| | | |
|--------------------|---|------------------|
| Materials to avoid | : | Oxidizing agents |
|--------------------|---|------------------|

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Acute toxicity

Not classified based on available information.

Product:

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

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
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:

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

Linalyl acetate:

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

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

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

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

Acute inhalation toxicity : LC50 (Mouse): > 2 mg/l
Exposure time: 90 min
Test atmosphere: vapour
Remarks: Based on data from similar materials

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

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

Bulnesia sarmienti, ext., acetate:

Acute oral toxicity : LD50 (Mouse): 10,000 mg/kg

p-tert-Butylcyclohexyl Acetate:

Acute oral toxicity : LD50 (Rat): 3,323 mg/kg

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

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

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

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

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

Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-:

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

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

Butane:

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

Skin corrosion/irritation

Not classified based on available information.

Components:

Ethanol:

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

Propan-2-ol:

Species : Rabbit
Result : No skin irritation

Linalyl acetate:

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

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

Species : Rabbit
Result : Skin irritation

Allyl hexanoate:

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

Bulnesia sarmienti, ext., acetate:

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

p-tert-Butylcyclohexyl Acetate:

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 439
Result : No skin irritation

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

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

Result : Skin irritation

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

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

Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-:

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

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

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

Linalyl acetate:

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

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

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

Allyl hexanoate:

Species : Rabbit
Result : No eye irritation

Bulnesia sarmienti, ext., acetate:

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Species : Chicken eye
Method : OECD Test Guideline 438

Result : No eye irritation

p-tert-Butylcyclohexyl Acetate:

Species : Rabbit
Result : No eye irritation

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

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

Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-:

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

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

Linalyl acetate:

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

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

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

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

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

Allyl hexanoate:

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

Bulnesia sarmienti, ext., 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 low to moderate skin sensitisation rate in humans

p-tert-Butylcyclohexyl Acetate:

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

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

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

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

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

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Result : positive

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

Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-:

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

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

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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

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

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

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

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

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)

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cytogenetic test, chromosomal analysis)
Species: Mouse
Application Route: Intraperitoneal
Result: negative

Bulnesia sarmienti, ext., acetate:

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

p-tert-Butylcyclohexyl Acetate:

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

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

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

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

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

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

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

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

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

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Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-:

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

Butane:

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

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

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

Carcinogenicity

Not classified based on available information.

Components:

Propan-2-ol:

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

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

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Effects on foetal development : Test Type: Embryo-foetal 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

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

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

Allyl hexanoate:

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

p-tert-Butylcyclohexyl Acetate:

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

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

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

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

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

Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-:

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

Butane:

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

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

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STOT - single exposure

Not classified based on available information.

Components:

Propan-2-ol:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Components:

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

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

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

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

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

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Exposure time : 91 Days
Remarks : Based on data from similar materials

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

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

Allyl hexanoate:

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

p-tert-Butylcyclohexyl Acetate:

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

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

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

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

Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-:

Species : Rat
NOAEL : 300 mg/kg
Application Route : Skin contact
Exposure time : 13 Weeks
Method : OECD Test Guideline 411

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Butane:

| | | |
|-------------------|---|-------------------------|
| Species | : | Rat |
| NOAEL | : | >= 9000 ppm |
| Application Route | : | inhalation (gas) |
| Exposure time | : | 6 Weeks |
| Method | : | OECD Test Guideline 422 |

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Ethanol:

| | | |
|--|---|--|
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): 14,200 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Ceriodaphnia dubia (water flea)): 5,012 mg/l Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | ErC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h EC10 (Chlorella vulgaris (Fresh water algae)): 11.5 mg/l Exposure time: 72 h |
| Toxicity to microorganisms | : | EC50 (Protozoa): 5,800 mg/l Exposure time: 4 h |
| Toxicity to fish (Chronic toxicity) | : | NOEC: >= 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 |

Linalyl acetate:

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- 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
Remarks: Based on data from similar materials
- 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

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

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 24 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 23 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 25.1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- NOEC (Desmodesmus subspicatus (green algae)): 6.3 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

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

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Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Bulnesia sarmienti, ext., acetate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.1 - 1 mg/l
Exposure time: 48 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.1 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

p-tert-Butylcyclohexyl Acetate:

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

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

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

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

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

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

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

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.38 mg/l

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aquatic invertebrates Exposure time: 48 h
Test substance: Water Accommodated Fraction

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 2.6 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction

NOEC (Desmodesmus subspicatus (green algae)): >= 2.6 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction

Toxicity to fish (Chronic toxicity) : NOEC: 0.16 mg/l
Exposure time: 30 d
Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0.044 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

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

Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.3 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.86 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

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Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 2.8 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 0.49 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.087 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

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 %

Linalyl acetate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 70 - 80 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: The test was conducted according to guideline

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

Biodegradability : Result: Readily biodegradable.
Biodegradation: 91 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

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Allyl hexanoate:

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

Bulnesia sarmienti, ext., acetate:

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

p-tert-Butylcyclohexyl Acetate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 28 d
Method: Directive 67/548/EEC Annex V, C.4.C.

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

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

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

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

Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 36 %
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

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Propan-2-ol:

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

Linalyl acetate:

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

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

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

Allyl hexanoate:

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

Bulnesia sarmienti, ext., acetate:

Partition coefficient: n-octanol/water : log Pow: 6.6

p-tert-Butylcyclohexyl Acetate:

Bioaccumulation : Bioconcentration factor (BCF): < 500

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

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

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

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

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

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

Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): > 500
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 5.6 - 5.9

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octanol/water

Butane:

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

12.4 Mobility in soil

Components:

Ethanol:

Distribution among environ-
mental 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 poten-
tial : This substance/mixture does not contain components consid-
ered to have endocrine disrupting properties for environment
according to UK REACH Article 57(f) at levels of 0.1% or
higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- | | |
|------------------------|---|
| Product | : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. |
| Contaminated packaging | : Please ensure aerosol cans are sprayed completely empty (including propellant) Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. |

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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 | |
| 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

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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 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 deple- : Not applicable

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te the ozone layer

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

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

Control of Major Accident Hazards Regulations 2015 (COMAH)

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

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

Other regulations:

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

Full text of H-Statements

| | |
|------|---|
| H220 | : Extremely flammable gas. |
| H225 | : Highly flammable liquid and vapour. |
| H280 | : Contains gas under pressure; may explode if heated. |
| H301 | : Toxic if swallowed. |
| H311 | : Toxic in contact with skin. |
| H315 | : Causes skin irritation. |
| H317 | : May cause an allergic skin reaction. |
| H319 | : Causes serious eye irritation. |
| H331 | : Toxic if inhaled. |
| H336 | : May cause drowsiness or dizziness. |
| H400 | : Very toxic to aquatic life. |
| H410 | : Very toxic to aquatic life with long lasting effects. |
| H412 | : Harmful to aquatic life with long lasting effects. |

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Full text of other abbreviations

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

Further information

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

SAFETY DATA SHEET

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



Tork Tropical Fruit Air Freshener Spray

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 29.09.2025 |
| 1.1 | 02.01.2026 | 11574232-00003 | Date of first issue: 12.09.2025 |

Classification of the mixture:

| | |
|-------------------|------------|
| Aerosol 1 | H222, H229 |
| Aquatic Chronic 3 | H412 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| 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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