

NORDIC WOOD

Version 1.0

Revision Date 01 DEC 2021

Print Date 01 DEC 2021

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

1.1 Product identifier

Sales No. : EAH38642/00
NORDIC WOOD

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

Intended Use Fragrances : Perfume compound

1.3 Details of the supplier of the safety data sheet

Company : Wired Retail Group Ltd T/A Craft HQ
Unit 7 Boss Hall Road
Ipswich
Suffolk
IP1 5BN

Telephone : 01473 855411
Telefax : 01473 855411
E-mail address : contact@crafthq.co.uk
Responsible/issuing person : Paul Mayne

1.4 Emergency telephone number

+441235239670
Please refer to section 16 for a full list of emergency phone numbers.

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Sales & Distribution Information: AS01/FR/GB10/01
Shipping Order Information: 22,889,720/16,714,150

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Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H315
H317
H319
H411

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P261

Avoid breathing dust/ fume/ gas/ mist/
vapours/ spray.

P264

Wash skin thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear protective gloves/ eye protection/ face
protection.

Response:

P333 + P313

If skin irritation or rash occurs: Get medical
advice/ attention.

P391

Collect spillage.

Hazardous components which must be listed on the label:

- 4-tert-butylcyclohexyl acetate 32210-23-4
- Eucalyptus oil 8000-48-4
- 2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphthalene (main isomer) 54464-57-2
- Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (= Beta-pinene) 127-91-3
- 2,4-dimethylcyclohex-3-ene-1-carbaldehyde 68039-49-6
- 2,2,6-trimethyl-alpha-propylcyclohexanepropanol 70788-30-6
- (2R,3R) & (2S,3S)-ethyl-3-isopropylbicyclo[2.2.1]hept-5-ene-2-carboxylate 116126-82-0
- 2-methyl-3-(4-isopropylphenyl)propanal 103-95-7
- 2H-1-benzopyran-2-one (=coumarin) 91-64-5
- 2-methylundecanal 110-41-8
- 2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene) 80-56-8
- 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene 13466-78-9
- 6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone 33704-61-9

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- l-carvone 6485-40-1
- 2-methoxy-4-(2-propen-1-yl)-phenol (eugenol) 97-53-0
- (R)-p-mentha-1,8-diene 5989-27-5
- methyl 2,4-dihydroxy-3,6-dimethylbenzoate 4707-47-5
- 1-(5,5(3,3)-dimethylcyclohex-1-en-1-yl)pent-4-en-1-one 56973-85-4
- 3-phenyl-2-propenal (= Cinnamic aldehyde) 104-55-2

2.3 Other hazards

Hazards not Otherwise Classified. : None

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

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [Percent by weight]
4-tert-butylcyclohexyl acetate	32210-23-4 250-954-9 01-2119976286-24	Skin Sens. 1B; H317	>= 1 - < 5
2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphthalene (main isomer)	54464-57-2 915-730-3 01-2119489989-04	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 1; H410	>= 2.5 - < 5
Eucalyptus oil	8000-48-4 84625-32-1 283-406-2 01-2119978250-37	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2.5 - < 5

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diphenyl ether	101-84-8 202-981-2 01-2119472545-33	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	>= 1 - < 2.5
1,7,7-trimethyl-Bicyclo[2.2.1]heptan-2-one (=camphor)	76-22-2 200-945-0 01-2119966156-31	Flam. Sol. 2; H228 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 2; H371 Aquatic Chronic 2; H411	>= 1 - < 2.5
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (= Beta-pinene)	127-91-3 204-872-5 01-2119519230-54	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2.5
(2R,3R) & (2S,3S)-ethyl-3-isopropylbicyclo[2.2.1]hept-5-ene-2-carboxylate	116126-82-0 116044-44-1 427-090-8 01-0000017347-67	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 1 - < 2.5
2,2,6-trimethyl-alpha-propylcyclohexanepropanol	70788-30-6 947-716-8 01-2120768938-30	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2.5
2,6-dimethyl-7-octen-2-ol	18479-58-8 242-362-4 01-2119457274-37	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 5
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6 943-728-2 01-2119982384-28	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 1 - < 2.5
propyl (2S)-2-(1,1-dimethylpropoxy)-propanoate	319002-92-1 437-530-0	Aquatic Chronic 3; H412	>= 1 - < 2.5

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5-methyl-2-(1-methylethyl)-cyclohexanol (= Menthol)	89-78-1 2216-51-5 1490-04-6 15356-70-4 491-01-0 201-939-0 218-690-9 216-074-4 239-388-3 207-723-2 01-2119458866-21 01-2119456815-30	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 5
2-methyl-3-(4-isopropylphenyl)propanal	103-95-7 203-161-7 01-2119970582-32	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0.25 - < 1
Pentyl 2-hydroxybenzoate	2050-08-0 218-080-2 01-2119969444-27	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
2H-1-benzopyran-2-one (=coumarin)	91-64-5 202-086-7 01-2119949300-45	Acute Tox. 4; H302 Skin Sens. 1B; H317	>= 0.1 - < 1
2-methylundecanal	110-41-8 203-765-0 01-2119969443-29	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
2-propenyl 2(3)-methylbutoxyacetate	67634-00-8 67634-01-9 916-328-0	Acute Tox. 4; H302 Acute Tox. 2; H330 Acute Tox. 4; H312 Aquatic Acute 1; H400	>= 0.25 - < 1
2,2-dimethyl-3-methylenebicyclo(2.2.1)heptane (= Camphene)	79-92-5 201-234-8	Flam. Sol. 2; H228 Eye Irrit. 2; H319 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1

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2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene)	80-56-8 7785-70-8 201-291-9 232-087-8 01-2119519223-49	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	13466-78-9 236-719-3 01-2119520252-55	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 0.1 - < 0.25
6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone	33704-61-9 251-649-3 01-2119977131-40	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 0.1 - < 0.25
l-carvone	6485-40-1 99-49-0 229-352-5 229-352-5 01-2119962458-25	Skin Sens. 1B; H317	>= 0.1 - < 1
2-methoxy-4-(2-propen-1-yl)-phenol (eugenol)	97-53-0 202-589-1 01-2119971802-33	Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0.1 - < 1
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5 01-2119529223-47	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.25
methyl 2,4-dihydroxy-3,6-dimethylbenzoate	4707-47-5 225-193-0 01-2120762759-36	Skin Sens. 1B; H317	>= 0.1 - < 1

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1-(5,5(3,3)-dimethylcyclohex-1-en-1-yl)pent-4-en-1-one	56973-85-4 944-482-9 01-2120739840-52	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	$\geq 0.1 - < 0.25$
3-phenyl-2-propenal (= Cinnamic aldehyde)	104-55-2 203-213-9 01-2119935242-45	Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Aquatic Chronic 3; H412	$\geq 0.025 - < 0.1$

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Remove contact lenses.
Immediately flush eyes for at least 15 minutes. Get medical attention.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : no data available
Risks : no data available

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : no data available

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SECTION 5. Firefighting measures

5.1 Extinguishing media

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

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : no data available

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Not applicable

SECTION 7. Handling and storage

7.1 Precautions for safe handling

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Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Temperature class : no data available
Fire-fighting class : no data available
Dust explosion class : no data available

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Ambient / 10-30°C (50-85°F)
Dry, well ventilated, preferably full, hermetically sealed
Advice on common storage : Protect against light.
German storage class : no data available
Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : no data available

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
diphenyl ether	101-84-8	STEL	2 ppm 14 mg/m ³	2017-02-01	2017/164/ EU
Further information	:	Indicative			
		TWA	1 ppm 7 mg/m ³	2017-02-01	2017/164/ EU

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Further information	:	Indicative				
			TWA	1 ppm 7 mg/m ³	2018-08-01	GB EH40
			STEL	2 ppm 14 mg/m ³	2018-08-01	GB EH40
1,7,7-trimethyl- Bicyclo[2.2.1]heptan-2-one (=camphor)		76-22-2	TWA	2 ppm 13 mg/m ³	2005-04-06	GB EH40
			STEL	3 ppm 19 mg/m ³	2005-04-06	GB EH40

8.2 Exposure controls

Personal protective equipment

- Respiratory protection : Use only in well-ventilated areas.
In case a risk analysis proved the cartridge respirator as acceptable, use type:
ABEK-P3 (EN 14387) respirator cartridges as a backup to engineering controls.
In absence of engineering controls, use self-contained breathing apparatus or full face supplied air respirators.
Use respirators and components tested and approved under appropriate government standards such as CEN (EU).
- Hand protection : Use gloves when handling substance in open systems.
Inspect gloves prior to use. Train operators for proper use.
If only incidental exposure is expected: (work without direct contact to substance) use gloves tested according EN 16523-1 breakthrough times at least 10 minutes, tested for chemicals indicated in chapter 3 of this SDS. Change gloves frequently.
If direct skin contact is expected: use gloves tested according to EN 16523-1, tested for chemicals indicated in chapter 3 of this SDS. Permeation time must exceed contact time.
- Eye protection : Use safety glasses and faceshield tested according to EN 166.
- Skin and body protection : Wear working clothes covering arms and legs.

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The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Use apron or complete chemical suit if exposure is expected.

- Hygiene measures : Do not eat, drink or smoke during work.
Wash and dry hands after finished working.
- Protective measures : Exposure assessment: Exposure is dependent on the product being handled, the potential for chemical release, and any resulting airborne concentrations or dermal contact. Since product handling and release scenarios vary, and no two workplaces are exactly alike, it is recommended that the potential for exposure be assessed prior to the product's use or introduction. Exposure assessments should be performed by an occupational hygienist, industrial hygienist, or other qualified occupational or environmental health professional. An exposure assessment should be conducted to determine the efficacy of any ventilation and the need for additional respiratory protection.
PPE is always the last resort to avoid exposure. In any case technical and organisational measures have to be explored and used prior to the selection of PPE. The PPE selection is for operators trained to work with chemicals according to good industrial hygiene and safety practice. Operators have to be trained and used to PPE handling.

Environmental exposure controls

- General advice : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
Form : liquid
Colour : Very slightly yellow to Pale yellow
Taste : not determined
Odour : aromatic, woody
Odour Threshold : Not applicable
Flash point : 85 °C Method: Grabner miniflash closed cup
Lower explosion limit : not determined
Upper explosion limit : not determined
Flammability : Not applicable
Oxidizing properties : no data available
Auto-ignition temperature : not determined
Decomposition temperature : no data available

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pH	: not determined
Melting point	: not determined
Boiling point	: not determined
Vapour pressure	: 0.2918 hPa at 20 °C Calculated (100.0 %)
Density	: 911.35 kg/m ³ at 20 °C
Bulk density	: Not applicable
Water solubility	: not determined
Solubility/qualitative	: practically insoluble
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, kinematic	: no data available
Relative vapour density	: no data available
Evaporation rate	: no data available
Explosive properties	: no data available

9.2 Other information

Not applicable

SECTION 10. Stability and reactivity

10.1 Reactivity

none

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

Thermal decomposition : no data available

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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Acute oral toxicity	: Acute toxicity estimate Dose: > 2,000 mg/kg Method: Calculation method	
Acute oral toxicity		
4-tert-butylcyclohexyl acetate	: LD50: 5,000 mg/kg	Species: Rat
2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene (main isomer)	: LD50: > 5,000 mg/kg	Species: Rat
diphenyl ether	: LD50: 2,450 mg/kg	Species: Rat
1,7,7-trimethyl-Bicyclo[2.2.1]heptan-2-one (=camphor)	: LD50: 1,310 mg/kg	Species: Mouse
2,2,6-trimethyl-alpha-propylcyclohexanepropanol	: LD50: > 5,000 mg/kg	Species: Rat
2,6-dimethyl-7-octen-2-ol	: LD50: 3,600 mg/kg	Species: Rat
5-methyl-2-(1-methylethyl)-cyclohexanol (= Menthol)	: LD50: 2,900 mg/kg	Species: Rat
Pentyl 2-hydroxybenzoate	: LD50: 2,000 mg/kg	Species: Rat
2H-1-benzopyran-2-one (=coumarin)	: LD50: 520 mg/kg	Species: Rat
2-methylundecanal	: LD50: > 5,000 mg/kg	Species: Rat
2-propenyl 2(3)-methylbutoxyacetate	: LD50: 730 mg/kg	Species: Rat
2,2-dimethyl-3-methylenebicyclo(2.2.1)heptane (= Camphene)	: LD50: > 5,000 mg/kg	Species: Rat
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene)	: LD50: 3,700 mg/kg	Species: Rat

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3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	: LD50: 4,800 mg/kg	Species: Rat
6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone	: LD50: 2,900 mg/kg	Species: Rat
2-methoxy-4-(2-propen-1-yl)-phenol (eugenol)	: LD50: 2,130 mg/kg	Species: Guinea pig
(R)-p-mentha-1,8-diene	: LD50: 5,600 mg/kg	Species: Mouse
methyl 2,4-dihydroxy-3,6-dimethylbenzoate	: LD50: > 8,000 mg/kg	Species: Rat
3-phenyl-2-propenal (= Cinnamic aldehyde)	: LD50: 2,220 mg/kg	Species: Rat
Acute inhalation toxicity	: Acute toxicity estimate Exposure time: 4 h Dose: > 20.00 mg/l Method: Calculation method	
Acute inhalation toxicity 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	:	
Acute dermal toxicity	: No data is available on the product itself.	
Acute dermal toxicity 4-tert-butylcyclohexyl acetate	: LD50: > 5,000 mg/kg	Species: Rabbit
2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene (main isomer)	: LD50: > 5,000 mg/kg	Species: Rabbit
diphenyl ether	: LD50: > 7,940 mg/kg	Species: Rabbit
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	: LD50: 5,000 mg/kg	Species: Rabbit
5-methyl-2-(1-methylethyl)-cyclohexanol (= Menthol)	: LD50: > 5,000 mg/kg	Species: Rabbit
2-methylundecanal	: LD50: > 10,000 mg/kg	Species: Rabbit

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l-carvone : LD50: 3,800 mg/kg Species: Rabbit

(R)-p-mentha-1,8-diene : LD50: > 5,000 mg/kg Species: Rabbit

methyl 2,4-dihydroxy-3,6-dimethylbenzoate : LD50: > 5,000 mg/kg Species: Rabbit

Acute toxicity (other routes of administration) : No data is available on the product itself.

Skin corrosion/irritation

Skin irritation : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Eye irritation : Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation

Sensitisation : No data is available on the product itself.

Germ cell mutagenicity

Germ cell mutagenicity : No data is available on the product itself.

Carcinogenicity

Carcinogenicity : No data is available on the product itself.

Reproductive toxicity

Reproductive toxicity : No data is available on the product itself.

Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic Toxicant - Single exposure : No data is available on the product itself.

Target Organ Systemic Toxicant - Repeated exposure

Target Organ Systemic Toxicant - Repeated exposure : No data is available on the product itself.

Target Organ Systemic Toxicant - Repeated exposure Aspiration hazard

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Aspiration toxicity : No data is available on the product itself.

Phototoxicity

Phototoxicity : No data is available on the product itself.

Further information : no data available

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

M-Factor

diphenyl ether : 1

M-Factor

Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (= Beta-pinene) : 1

M-Factor

2,2,6-trimethyl-alpha-propylcyclohexanepropanol : 1

M-Factor

Pentyl 2-hydroxybenzoate : 1

M-Factor

2-methylundecanal : 1

M-Factor

2-propenyl 2(3)-methylbutoxyacetate : 1

M-Factor

2,2-dimethyl-3-methylenebicyclo(2.2.1)heptane (= Camphene) : 1

M-Factor

2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene) : 1

M-Factor

(R)-p-mentha-1,8-diene : 1

Toxicity to bacteria : no data available

Toxicity to fish (Chronic toxicity) : no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : no data available

M-Factor

Short-term (acute) aquatic : no data available

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hazard
Long-term (chronic) aquatic hazard : no data available
Toxicity Data on Soil : no data available
Other organisms relevant to the environment : no data available

12.2 Persistence and degradability

Biodegradability : no data available
Biodegradability
Pentyl 2-hydroxybenzoate : Result: Readily biodegradable.
86 %
Method: OECD Test Guideline 301 F

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Mobility : no data available
Distribution among environmental compartments : no data available
Additional advice : no data available
Environmental fate and pathways
Physico-chemical removability : no data available

12.5 Results of PBT and vPvB 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

Biochemical Oxygen Demand (BOD) : no data available
Dissolved organic carbon (DOC) : no data available
Chemical Oxygen Demand (COD) : no data available
Adsorbed organic bound halogens (AOX) : no data available
Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

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SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

Dispose of in accordance with local regulations.

SECTION 14. Transport information

14.1 UN number

ADR : UN 3082

RID : UN 3082

IMDG : UN 3082

IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Octahydro-tetramethyl-naphthalenyl-ethanone, beta-Pinene)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Octahydro-tetramethyl-naphthalenyl-ethanone, beta-Pinene)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Octahydro-tetramethyl-naphthalenyl-ethanone, beta-Pinene)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(Octahydro-tetramethyl-naphthalenyl-ethanone, beta-Pinene)

14.3 Transport hazard class(es)

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group

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ADR : III
RID : III
IMDG : III
IATA : III

14.5 Environmental hazards

ADR
Environmentally hazardous : yes
RID
Environmentally hazardous : yes
IMDG
Marine pollutant : yes
IATA (Passenger)
Environmentally hazardous : yes
IATA (Cargo)
Environmentally hazardous : yes

14.6 Special precautions for user

ADR
Tunnel restriction code : (-)
IMDG
IMDG Code Segregation : None
Group

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

Not applicable for product as supplied.

SECTION 15. Regulatory information

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

Major Accident Hazard Legislation : ENVIRONMENTAL HAZARDS
E2
Quantity 1: 200 t
Quantity 2: 500 t
Water contaminating class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful 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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H371	May cause damage to organs if inhaled.
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 list of Emergency response numbers worldwide.

	Country	Phone nr		Country	Phone nr
Europe	All Europe	+44 1235 239670	APAC	All East/South East Asia	+65 3158 1074
	France	+33 1 72 11 00 03		Sri Lanka	+65 3158 1195
	Germany	+49 89 220 61012		Taiwan	+886 2 8793 3212
	Spain	+34 91 114 2520		Japan	+81 3 4578 9341
	Italy	+39 02 3604 2884		Indonesia	007 803 011 0293
	Netherlands	+31 10 713 8195		Malaysia	+60 3 6207 4347
	Turkey	+90 212 375 5231		Thailand	001 800 120 666 751
	Norway	+47 2103 4452		India	+65 3158 1198 000 800 100 7479
	Greece	+30 21 1198 3182		Pakistan	+65 3158 1329
	Portugal	+351 30880 4750		Bangladesh	+65 3158 1200
	Denmark	+45 8988 2286		Philippines	+63 2 8231 2149
	Sweden	+46 8 566 42573		Vietnam	+84 28 4458 2388
	Poland	+48 22 307 3690		Korea	+65 3158 1285
	Czech republic	+420 228 882 830		South Korea	+82 2 3479 8401
	Finland	+358 9 7479 0199		Australia	+61 2 8014 4558
Middle East/Africa	All Middle East/Africa	+44 1235 239671	New Zealand	+64 9 929 1483	
	Bahrain and Middle East	+44 1235 239671	China	+86 532 8388 9090	

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	Africa/South Africa	+27 21 300 2732		Mexico	+52 55 5004 8763
NOAM	USA and Canada	+1 866 928 0789	LATAM	Brazil	+55 11 3197 5891
	USA and Canada	+1 215 207 0061		Chile	+56 2 2582 9336
	USA and Canada	+1 202 464 2554		Colombia	+57 1 508 7337
Global	Global	+44 1865 407333		Argentina	+54 11 5984 3690

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Key or legend to abbreviations and acronyms used in the safety data sheet

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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 Harmonized 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 Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; 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 - Organization 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Information displayed in section 3 (Composition/information on ingredients) is additional information to understand the hazards of the product and ensure safe handling, storage and transportation. This information, including CAS numbers, is not meant to be used for registration, notification or any other purposes. Any additional information and documentation needed may be provided by Givaudan.

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