

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

DAISY CHAIN 1088

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

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

1.1 Product identifier

Sales No. : DAISY CHAIN 1088

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 :
Craft HQ
Unit 7 Boss Hall Road
Ipswich
Suffolk
IP1 5BN

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

1.4 Emergency telephone number

01473 855411

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
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)

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,946/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P315 Get immediate medical advice/ attention.
P391 Collect spillage.

Hazardous components which must be listed on the label:

- (2E)-3,7-dimethyl-2,6-octadien-1-ol 106-24-1 (= geraniol)
- 3,7-dimethyl-6-octen-1-ol (= citronellol) 106-22-9
- 3,7-dimethyloctan-3-ol 78-69-3
- 3-(4-tert-butylphenyl)-2-methylpropanal 80-54-6
- 2-propenyl heptanoate (= Allyl heptanoate) 142-19-8
- 2,4-dimethylcyclohex-3-ene-1-carbaldehyde 68039-49-6
- 2-methyl-3-(4-isopropylphenyl)propanal 103-95-7
- 2-propenyl 3-cyclohexylpropanoate (= allyl 3-cyclohexyl propionate) 2705-87-5
- citral 5392-40-5
- 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one 57378-68-4
- 3-(4-tert butylphenyl)-propanal 18127-01-0
- 2-methoxy-4-(2-propen-1-yl)-phenol (eugenol) 97-53-0

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

- 2,6-dimethyl-5-heptenal 106-72-9
- ethyl 2,3-epoxy-3-phenylbutyrate 77-83-8
- 1-(2,6,6-Trimethylcyclohexa-1,3-dien-1-yl)but-2-en-1-one 23696-85-7

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-undecanolide	104-67-6 203-225-4 01-2119959333-34	Aquatic Chronic 3; H412	>= 5 - < 10
2-tert-butylcyclohexyl acetate	88-41-5 20298-69-5 201-828-7 243-718-1 01-2119970713-33	Aquatic Chronic 2; H411	>= 5 - < 10
2-phenylethanol	60-12-8 200-456-2 01-2119963921-31	Acute Tox. 4; H302 Eye Irrit. 2; H319	>= 1 - < 5
Benzyl acetate	140-11-4 205-399-7 01-2119638272-42	Aquatic Chronic 3; H412	>= 2.5 - < 5
(2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol)	106-24-1 203-377-1 01-2119552430-49	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 3 - < 5

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

3,7-dimethyl-6-octen-1-ol (= citronellol)	106-22-9 203-375-0 01-2119453995-23	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 5
3,7-dimethyloctan-3-ol	78-69-3 201-133-9 01-2119454788-21	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 5
2,2,2-trichloro-1-phenylethyl acetate	90-17-5 201-972-0 01-2119929625-31	Skin Irrit. 2; H315 Aquatic Chronic 3; H412	>= 2.5 - < 5
4-(2,6,6-Trimethylcyclohex-1-en-1-yl)but-3-en-2-one (= ionone beta)	14901-07-6 79-77-6 8013-90-9 238-969-9 201-224-3 232-396-8 01-2119449921-34	Aquatic Chronic 2; H411	>= 2.5 - < 5
3-(4-tert-butylphenyl)-2-methylpropanal	80-54-6 201-289-8 01-2119485965-18	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Repr. 2; H361 Aquatic Chronic 3; H412	>= 2.5 - < 3
2-propenyl heptanoate (= Allyl heptanoate)	142-19-8 205-527-1 01-2119488961-23	Acute Tox. 3; H301 Acute Tox. 3; H311 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	>= 1 - < 2.5
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
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	>= 1 - < 2.5

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

2-cyclohexylidene-2-phenylacetonitrile	10461-98-0 423-740-1 01-0000017023-83	Acute Tox. 4; H302 Aquatic Chronic 2; H411	>= 1 - < 2.5
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
2-propenyl hexanoate (= Allyl hexanoate)	123-68-2 204-642-4 01-2119983573-26	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	>= 1 - < 2.5
2-propenyl 3-cyclohexylpropanoate (= allyl 3-cyclohexyl propionate)	2705-87-5 220-292-5 01-2119976355-27	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2.5
citral	5392-40-5 226-394-6 01-2119462829-23	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
4-Methyl-3-decen-5-ol	81782-77-6 279-815-0 01-2119983528-21	Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0.25 - < 1
4-Methyl-2-(2-methyl-1-propenyl)tetrahydro-2H-pyran	16409-43-1 240-457-5 01-2119976300-42	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361	>= 0,1 - < 1
cis-3-hexenyl 2-hydroxybenzoate	65405-77-8 265-745-8 01-2119987320-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	57378-68-4 71048-82-3 260-709-8 275-156-8 01-2119535122-53	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
3-(4-tert butylphenyl)-propanal	18127-01-0 242-016-2 01-2119983533-30	Skin Irrit. 2; H315 Skin Sens. 1B; H317 STOT RE 2; H373 Aquatic Chronic 3; H412	>= 0.1 - < 0.25
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
2,6-dimethyl-5-heptenal	106-72-9 203-427-2 01-2120270305-62	Skin Sens. 1B; H317	>= 0.1 - < 1
2-propenyl (cyclohexyloxy)acetate	68901-15-5 272-657-3 01-2120770514-54	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.25
ethyl 2,3-epoxy-3-phenylbutyrate	77-83-8 201-061-8 01-2119967770-28	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 0.1 - < 0.25
benzene, 1-methoxy-4-methyl- (4-methylanisole)	104-93-8 203-253-7 01-2119513371-52	Acute Tox. 4; H302 Skin Irrit. 2; H315 Repr. 2; H361	>= 0.1 - < 1
1-(2,6,6-Trimethylcyclohexa-1,3-dien-1-yl)but-2-en-1-one	23696-85-7 23726-93-4 245-833-2 245-844-2 01-2120105798-49	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Chronic 2; H411	>= 0.025 - < 0.1

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

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

SECTION 4. First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
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 induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

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

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.

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

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

- 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.
To avoid spills during handling keep bottle on a metal tray.
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

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

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
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

Administrative information:
Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33
Sales & Distribution Information: AS01/FR/GB10/01
Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

DNEL
106-72-9

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 7.05 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute systemic effects
Value: 21.16 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 17.63 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 52.89 mg/m³

End Use: Workers
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 2 mg/kg bw/day

End Use: Workers
Exposure routes: Dermal
Potential health effects: Acute systemic effects
Value: 170 mg/kg bw/day

End Use: Workers
Exposure routes: Dermal
Potential health effects: Long-term local effects
Value: 141.7 mg/cm²

End Use: Workers
Exposure routes: Dermal
Potential health effects: Acute local effects
Value: 425 mg/cm²

End Use: Consumer use
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 1.74 mg/m³

End Use: Consumer use
Exposure routes: Inhalation
Potential health effects: Acute systemic effects
Value: 5.22 mg/m³

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

End Use: Consumer use
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 4.35 mg/m³

End Use: Consumer use
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 13.04 mg/m³

End Use: Consumer use
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 1 mg/kg bw/day

End Use: Consumer use
Exposure routes: Dermal
Potential health effects: Acute systemic effects
Value: 85 mg/kg bw/day

End Use: Consumer use
Exposure routes: Dermal
Potential health effects: Long-term local effects
Value: 70.83 mg/cm²

End Use: Consumer use
Exposure routes: Dermal
Potential health effects: Acute local effects
Value: 212.5 mg/cm²

End Use: Consumer use
Exposure routes: Oral
Potential health effects: Long-term systemic effects
Value: 1 mg/kg bw/day

PNEC
106-72-9

: Fresh water
Value: 0.0023 mg/l

Fresh water sediment
Value: 0.045 mg/kg dry weight (d.w.)

Marine water
Value: 0.00023 mg/l

Marine sediment
Value: 0.0045 mg/kg dry weight (d.w.)

Sewage treatment plant
Value: 10 mg/l

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

Soil
Value: 0.021 mg/kg dry weight (d.w.)

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.
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

Administrative information:
Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33
Sales & Distribution Information: AS01/FR/GB10/01
Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

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	: colorless to Very slightly yellow
Taste	: not determined
Odour	: Floral, fruity, Green
Odour Threshold	: Not applicable
Flash point	: 81 °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
pH	: not determined
Melting point	: not determined
Boiling point	: not determined
Vapour pressure	: 0.4869 hPa at 20 °C Calculated (99.4 %)
Density	: 923.33 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

Administrative information:
Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33
Sales & Distribution Information: AS01/FR/GB10/01
Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

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

Acute oral toxicity : Acute toxicity estimate
Dose: 1,924 mg/kg
Method: Calculation method

Acute oral toxicity
4-undecanolide : LD50: 18,500 mg/kg Species: Rat

2-tert-butylcyclohexyl acetate : LD50: 4,600 mg/kg Species: Rat

2-phenylethanol : LD50: 1,790 mg/kg Species: Rat

Benzyl acetate : LD50: 2,490 mg/kg Species: Rat

(2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol) : LD50: 3,600 mg/kg Species: Rat

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

3,7-dimethyl-6-octen-1-ol (= citronellol)	: LD50: 3,450 mg/kg	Species: Rat
3,7-dimethyloctan-3-ol	: LD50: > 5,000 mg/kg	Species: Rat
2,2,2-trichloro-1-phenylethyl acetate	: LD50: 6,800 mg/kg	Species: Rat
3-(4-tert-butylphenyl)-2-methylpropanal	: LD50: 1,390 mg/kg	Species: Rat
2-cyclohexylidene-2-phenylacetone	: LD50: 619 mg/kg	Species: Rat
diphenyl ether	: LD50: 2,450 mg/kg	Species: Rat
2-propenyl hexanoate (= Allyl hexanoate)	: LD50: 218 mg/kg	Species: Rat
2-propenyl 3-cyclohexylpropanoate (= allyl 3-cyclohexyl propionate)	: LD50: 1,051 mg/kg	Species: Rat
4-Methyl-3-decen-5-ol	: LD50: > 8,000 mg/kg	Species: Rat
cis-3-hexenyl 2-hydroxybenzoate	: LD50: > 5,000 mg/kg	Species: Rat
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	: LD50: 1,821 mg/kg	Species: Mouse
3-(4-tert butylphenyl)-propanal	: LD50: 2,660 mg/kg	Species: Rat
2-methoxy-4-(2-propen-1-yl)-phenol (eugenol)	: LD50: 2,130 mg/kg	Species: Guinea pig
2,6-dimethyl-5-heptenal	: LD50: > 5,000 mg/kg	Species: Rat
2-propenyl (cyclohexyloxy)acetate	: LD50: 620 mg/kg	Species: Rat
ethyl 2,3-epoxy-3-phenylbutyrate	: LD50: > 5,000 mg/kg	Species: Rat

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

benzene, 1-methoxy-4-methyl- (4-methylanisole)	: LD50: 1,920 mg/kg	Species: Rat
1-(2,6,6-Trimethylcyclohexa-1,3-dien-1-yl)but-2-en-1-one	: LD50: 2,900 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 2-propenyl heptanoate (= Allyl heptanoate)	: Acute toxicity estimate: 3.00 mg/l	
Acute dermal toxicity	: Acute toxicity estimate Dose: > 2,000 mg/kg Method: Calculation method	
Acute dermal toxicity 2-tert-butylcyclohexyl acetate	: LD50: > 5,000 mg/kg	Species: Rabbit
(2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol)	: LD50: > 5,000 mg/kg	Species: Rabbit
3,7-dimethyl-6-octen-1-ol (= citronellol)	: LD50: 2,650 mg/kg	Species: Rabbit
3,7-dimethyloctan-3-ol	: LD50: > 5,000 mg/kg	Species: Rabbit
2-propenyl heptanoate (= Allyl heptanoate)	: LD50: 810 mg/kg	Species: Rabbit
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	: LD50: 5,000 mg/kg	Species: Rabbit
diphenyl ether	: LD50: > 7,940 mg/kg	Species: Rabbit
2-propenyl hexanoate (= Allyl hexanoate)	: LD50: 300 mg/kg	Species: Rabbit
2-propenyl 3-cyclohexylpropanoate (= allyl 3-cyclohexyl propionate)	: LD50: 1,600 mg/kg	Species: Rabbit
citral	: LD50: 2,250 mg/kg	Species: Rabbit

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

cis-3-hexenyl 2-hydroxybenzoate : LD50: > 5,000 mg/kg Species: Rabbit

3-(4-tert butylphenyl)-propanal : LD50: > 5,000 mg/kg Species: Rabbit

2,6-dimethyl-5-heptenal : LD50: > 5,000 mg/kg Species: Rabbit

ethyl 2,3-epoxy-3-phenylbutyrate : LD50: > 5,000 mg/kg Species: Rabbit

benzene, 1-methoxy-4-methyl- (4-methylanisole) : 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 : May cause irreversible eye damage.

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

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

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

Target Organ Systemic Toxicant - Repeated exposure Aspiration hazard

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

2-propenyl heptanoate (= Allyl heptanoate) : 1

M-Factor

2,4-dimethylcyclohex-3-ene-1-carbaldehyde : 1

M-Factor

diphenyl ether : 1

M-Factor

2-propenyl hexanoate (= Allyl hexanoate) : 1

M-Factor

2-propenyl 3-cyclohexylpropanoate (= allyl 3-cyclohexyl propionate) : 1

M-Factor

4-Methyl-3-decen-5-ol : 1

M-Factor

cis-3-hexenyl 2-hydroxybenzoate : 1

M-Factor

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

M-Factor

2-propenyl (cyclohexyloxy)acetate : 1

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

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
Short-term (acute) aquatic hazard	: no data available
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
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12.3 Bioaccumulative potential

Bioaccumulation	: no data available
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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.

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

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.
(Allyl 3-cyclohexylpropionate, 2-tert-Butylcyclohexyl acetate)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Allyl 3-cyclohexylpropionate, 2-tert-Butylcyclohexyl acetate)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Allyl 3-cyclohexylpropionate, 2-tert-Butylcyclohexyl acetate)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(Allyl 3-cyclohexylpropionate, 2-tert-Butylcyclohexyl acetate)

14.3 Transport hazard class(es)

ADR : 9

RID : 9

IMDG : 9

IATA : 9

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

14.4 Packing group

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 3 highly 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.

Administrative information:
Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33
Sales & Distribution Information: AS01/FR/GB10/01
Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

SECTION 16. Other information**Full text of H-Statements referred to under sections 2 and 3.**

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
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 replublic	+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	

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

	Bahrain and Middle East	+44 1235 239671		China	+86 532 8388 9090
	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

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

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.

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,948/13,869,035

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 1.0

Revision Date 08 JAN 2021

Print Date 08 JAN 2021

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/33

Sales & Distribution Information: AS01/FR/GB10/01

Shipping Order Information: 20,709,946/13,869,035