

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



PINE SAGE 106Q

Version 1.0

Revision Date 17 JUN 2011

Print Date 17 JUN 2011

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

1.1 Product identifier

Sales No. : SES080318
PINE SAGE 106Q

Substance name : MULTI-COMPONENT MIXTURE

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 :
Givaudan Fragrances (Shanghai) Ltd.
PuDong Zhang Jiang High- Tech Park
298 Li Shi Zhen Road
201203 SHANGHAI

Telephone : +862128931288
Telefax : +862150271412
E-mail address : global.msds_fragrances_raps@givaudan.com
Responsible/issuing person

1.4 Emergency telephone number

+861051003039

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.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Sensitising	R43: May cause sensitization by skin contact.
Dangerous for the environment	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Administrative information:
Report Information: SDS_FR/EN/GHS_SDS_EU_CNTRY/06
Sales & Distribution Information: XX50/FR/XX10/01
Report ID: 2213107/820430

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Givaudan[®]

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Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 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.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

Hazardous components which must be listed on the label:

- 2H-1-BENZOPYRAN-2-ONE 91-64-5

Labelling according to EC Directives (67/548/EEC, 1999/45/EC)

Hazard pictograms

:



Irritant

Dangerous
for the
environment

R-phrase(s)

: R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

: S24 Avoid contact with skin.
S37 Wear suitable gloves.
S57 Use appropriate container to avoid environmental contamination.
S60 This material and its container must be disposed of as hazardous waste.

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Hazardous components which must be listed on the label:

- 2H-1-BENZOPYRAN-2-ONE 91-64-5

2.3 Other hazards

no data available

3. Composition/information on ingredients**3.2 Mixtures****Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
4-(5,5,6-TRIMETHYLBICYCLO(2.2.1)HEPT-2-YL)-CYCLOHEXAN-1-OL (AND ISOMERS)	66068-84-6 266-100-3	Xi; R38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 5 - < 10
3,7-DIMETHYL-1,6-OCTADIEN-3-OL	78-70-6 201-134-4	Xi; R38	Skin Irrit. 2; H315	>= 1 - < 5
5-(2,2,3-TRIMETHYL-3-CYCLOPENTENYL)-3-METHYLPENTAN-2-OL	65113-99-7 265-453-0	N; R51/53	Aquatic Chronic 2; H411	>= 2,5 - < 5
2-ETHYL-4-(2,2,3-TRIMETHYL-3-CYCLOPENTEN-1-YL)-2-BUTEN-1-OL (MAIN COMPONENT)	28219-61-6 248-908-8	N; R50/53 Xi; R38	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
2H-1-BENZOPYRAN-2-ONE	91-64-5 202-086-7	Xn; R22 Xi; R43	Acute Tox. 4; H302 Skin Sens. 1; H317 STOT RE 2; H373	>= 1 - < 5
CEDARWOOD OIL TERPENES AND TERPENOIDS	11028-42-5 234-257-7	N; R50/53 Xn; R65 Xi; R38-R43	Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1

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2-METHOXY-4-(2-PROPENYL)PHENOL	97-53-0 202-589-1	Xi; R43-R36	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 0,1 - < 1
1-(2,6,6-Trimethylcyclohex-2-en-1-yl)pent-1-en-3-one	1335-46-2 215-635-0	N; R51/53	Aquatic Chronic 2; H411	>= 0,1 - < 1
3-methoxy-4-hydroxy-benzaldehyde	121-33-5 204-465-2	Xi; R43	Skin Sens. 1; H317	>= 0,1 - < 1
ALPHA CEDRENE	469-61-4 207-418-4	N; R50/53 Xn; R65	Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
[3R-(3a,3aβ,6a,7β,8aa)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol	77-53-2 201-035-6	N; R51/53	Aquatic Chronic 2; H411	>= 0,1 - < 1

For the full text of the R-phrases mentioned in this Section, see Section 16.

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

Hydrocarbons : 2,2 %

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 : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

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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 immediate medical attention and special treatment needed

Treatment : no data available

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting 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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform

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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

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.
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 : no data available

Advice on common storage : no data available

German storage class : no data available

Other data : No decomposition if stored and applied as directed.

7.3 Specific end uses

Specific use(s) : no data available

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8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid
Form : liquid
Colour : Very slightly yellow, yellow
Taste : not determined
Odour : Fern-like, Citrus-like, Ambery
Odour Threshold : not applicable
Flash point : 110 °C Method: Grabner miniflash closed cup
Lower explosion limit : not determined
Upper explosion limit : not determined
Flammability (solid, gas) : not applicable
Oxidizing properties : no data available
Autoignition 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	: 0,0491 hPa at 20 °C Calculated (99,8 %)
Density	: 878,97 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

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

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate
Dose: 44 422 mg/kg
Method: Calculation method

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Acute oral toxicity

4-(5,5,6-TRIMETHYLBICYCLO(2.2.1)HEPT-2-YL)-CYCLOHEXAN-1-OL (AND ISOMERS)	: LD50: > 5 000 mg/kg	Species: rat
3,7-DIMETHYL-1,6-OCTADIEN-3-OL	: LD50: 2 790 mg/kg	Species: rat
5-(2,2,3-TRIMETHYL-3-CYCLOPENTENYL)-3-METHYLPENTAN-2-OL	: LD50: > 6 750 mg/kg	Species: rat
2-ETHYL-4-(2,2,3-TRIMETHYL-3-CYCLOPENTEN-1-YL)-2-BUTEN-1-OL (MAIN COMPONENT)	: LD50: > 2 000 mg/kg	Species: rat
2H-1-BENZOPYRAN-2-ONE	: LD50: 293 mg/kg	Species: rat
	LD50: 196 mg/kg	Species: mouse
	LD50: 202 mg/kg	Species: guinea pig
CEDARWOOD OIL TERPENES AND TERPENOIDS	: LD50: > 5 000 mg/kg	Species: rat
2-METHOXY-4-(2-PROPENYL)PHENOL	: LD50: 1 930 mg/kg	Species: rat
	LD50: 2 130 mg/kg	Species: guinea pig
1-(2,6,6-Trimethylcyclohex-2-en-1-yl)pent-1-en-3-one	: LD50: 5 000 mg/kg	Species: rat
3-methoxy-4-hydroxy-benzaldehyde	: LD50: 1 580 mg/kg	Species: rat
	LD50: 3 925 mg/kg	Species: mouse
	LD50: 1 400 mg/kg	Species: guinea pig
ALPHA CEDRENE	: LD50: > 5 000 mg/kg	Species: rat

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[3R-(3a,3aβ,6a,7β,8aa)]-
octahydro-3,6,8,8-
tetramethyl-1H-3a,7-
methanoazulen-6-ol : LD50: > 5 000 mg/kg Species: rat

Acute inhalation toxicity : No data is available on the product itself.

Acute dermal toxicity : No data is available on the product itself.

Acute dermal toxicity

3,7-DIMETHYL-1,6-
OCTADIEN-3-OL : LD50: 5 000 mg/kg Species: rabbit

2-ETHYL-4-(2,2,3-
TRIMETHYL-3-
CYCLOPENTEN -1-YL)-2-
BUTEN-1-OL (MAIN
COMPONENT) : LD50: > 5 000 mg/kg Species: rat

1-(2,6,6-Trimethylcyclohex-2-
en-1-yl)pent-1-en-3-one : LD50: 5 000 mg/kg Species: rabbit

3-methoxy-4-hydroxy-
benzaldehyde : LD50: > 5 010 mg/kg Species: rabbit

ALPHA CEDRENE : LD50: > 5 000 mg/kg Species: rabbit

[3R-(3a,3aβ,6a,7β,8aa)]-
octahydro-3,6,8,8-
tetramethyl-1H-3a,7-
methanoazulen-6-ol : LD50: > 5 000 mg/kg Species: rabbit

LD50: > 5 000 mg/kg Species: rat

**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.

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Respiratory or skin sensitization

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**

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

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-ETHYL-4-(2,2,3- : 1

TRIMETHYL-3-

CYCLOPENTEN -1-YL)-2-

BUTEN-1-OL (MAIN

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COMPONENT)

M-Factor

CEDARWOOD OIL : 10

TERPENES AND

TERPENOIDS

M-Factor

ALPHA CEDRENE : 10

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

Acute aquatic toxicity : no data available

Chronic aquatic toxicity : 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

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

no data available

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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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.

14. Transport information

ADR/RID/ADN

UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(2-Ethyl-4-(trimethyl-3-cyclopentenyl)-2-butenol)
Transport hazard class(es) : 9
Packing group : III
Hazard identification No : 90
Labels : 9
Tunnel restriction code : (E)
Environmentally hazardous : yes

IATA/ICAO

UN number : 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(2-Ethyl-4-(trimethyl-3-cyclopentenyl)-2-butenol)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

Packing instruction (CAO) : 964
Packing instruction (PAX) : 964
Packing instruction (Ltd. Qty.) : Y964

IMDG

UN number : 3082

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Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(2-Ethyl-4-(trimethyl-3-cyclopentenyl)-2-butenol)

Class : 9

Packing group : III

Labels : 9

EmS Fire : F-A

EmS Spillage : S-F

Marine pollutant : yes
2-Ethyl-4-(trimethyl-3-cyclopentenyl)-2-butenol

15. Regulatory information

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

Water contaminating class : WGK 2 water endangering
(Germany)

15.2 Chemical Safety Assessment

no data available

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R22 Harmful if swallowed.

R36 Irritating to eyes.

R38 Irritating to skin.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

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

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H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

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.

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