

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Givaudan

ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

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

1.1 Product identifier

Sales No. : 21000663
ORRIS GIVCO 204-2-20

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 Suisse SA
Chemin de la Parfumerie 5
CH-1214 VERNIER

Telephone : +41227809111
Telefax : +41227809150
E-mail address : global.msds_fragrances_raps@givaudan.com
Responsible/issuing person

1.4 Emergency telephone number

+33172110003

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Sub-category 1B 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 sensitisation 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)

Hazard pictograms :



Administrative information:

Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Givaudan[®]

ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

Signal word	:	Warning	
Hazard statements	:	H317 H411	May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P261 P273 P280 Response: P333 + P313 P363 P391	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Avoid release to the environment. Wear protective gloves. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. Collect spillage.

Hazardous components which must be listed on the label:

- 2,6,6,8-tetramethyl-9-acetyl- 32388-55-9
tricyclo{5.3.1.0(1,5)}undec-8-ene
- 2,6,6-trimethyl-Bicyclo[3.1.1]hept-2- 80-56-8
ene (alpha-pinene)

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

Hazard pictograms	:		
		Irritant	Dangerous for the environment

R-phrases(s)	:	R43 R51/53	May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	:	S24 S37 S57 S60	Avoid contact with skin. Wear suitable gloves. Use appropriate container to avoid environmental contamination. This material and its container must be disposed of as hazardous waste.

Hazardous components which must be listed on the label:

- 2,6,6,8-tetramethyl-9-acetyl- 32388-55-9
tricyclo{5.3.1.0(1,5)}undec-8-ene

Administrative information:

Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**ORRIS GIVCO 204-2-20**

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

2.3 Other hazards

no data available

SECTION 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-(2,6,6-Trimethylcyclohex-1-en-1-yl)but-3-en-2-one (ionone beta)	14901-07-6 238-969-9 01-2119449921-34-0000 01-2119449921-34-0002	N; R51/53	Aquatic Chronic 2; H411	>= 50 - <= 100
4-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)BUTAN-2-ONE	17283-81-7 241-318-1 / /	N; R51/53	Aquatic Chronic 2; H411	>= 25 - < 50
2,6,6,8-tetramethyl-9-acetyl-tricyclo{5.3.1.0(1,5)}undec-8-ene	32388-55-9 251-020-3 / /	Xi; R43 N; R50/53	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 5
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	>= 1 - < 2,5
3-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACETATE (CIS & TRANS)	31846-06-7 250-837-2	Xi; R38	Skin Irrit. 2; H315	>= 1 - < 5
[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	>= 0,25 - < 1

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Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**ORRIS GIVCO 204-2-20**

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

2,4-DIMETHYL-2-(1,1,4,4,-TETRAMETHYLTETRALIN-6-YL)-1,3-DIOXOLANE	131812-67-4 412-950-7 01-0000016016-79-0004	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (alpha-pinene)	80-56-8 201-291-9 01-2119519223-49-0000	R10 Xi; R38 Xi; R43 Xn; R65	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304	>= 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 : 1,6 %

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 on skin, rinse well with water.
- 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.
- 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

Administrative information:

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Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317

ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

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
Water spray
Carbon dioxide (CO₂)

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 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.

SECTION 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 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.

Administrative information:
Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11
Sales & Distribution Information: VE01/FR/CH11/01
Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

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.
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 use(s)

Specific use(s) : no data available

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Administrative information:
Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11
Sales & Distribution Information: VE01/FR/CH11/01
Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

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 : 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.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Form	: liquid
Colour	: Pale yellow to Lemon yellow
Taste	: not determined
Odour	: woody, Undefined
Odour Threshold	: not applicable
Flash point	: 109 °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
Auto-ignition temperature	: not determined
Decomposition temperature	: no data available
pH	: not determined
Melting point	: not determined
Boiling point	: not determined
Vapour pressure	: 0,0185 hPa at 20 °C Calculated (99,9 %)
Density	: 938,97 kg/m ³ at 20 °C
Bulk density	: not applicable
Water solubility	: not determined
Solubility/qualitative	: practically insoluble

Administrative information:

Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

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

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 : No data is available on the product itself.

Acute oral toxicity

4-(2,6,6-Trimethylcyclohex-1-en-1-yl)but-3-en-2-one (ionone beta) : LD50: 4 590 mg/kg Species: rat

4-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)BUTAN-2-ONE : LD50: 2 000 mg/kg Species: rat

Administrative information:

Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

2,6,6,8-tetramethyl-9-acetyl-tricyclo{5.3.1.0(1,5)}undec-8-ene	: LD50: > 5 000 mg/kg	Species: rat
alpha cedrene	: LD50: > 5 000 mg/kg	Species: rat
3-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACETATE (CIS & TRANS)	: LD50: > 2 000 mg/kg	Species: rat
[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
2,4-DIMETHYL-2-(1,1,4,4,-TETRAMETHYLTETRALIN-6-YL)-1,3-DIOXOLANE	: LD50: > 2 000 mg/kg	Species: rat
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (alpha-pinene)	: LD50: 3 700 mg/kg	Species: rat
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		
2,6,6,8-tetramethyl-9-acetyl-tricyclo{5.3.1.0(1,5)}undec-8-ene	: LD50: > 2 000 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
2,4-DIMETHYL-2-(1,1,4,4,-TETRAMETHYLTETRALIN-6-YL)-1,3-DIOXOLANE	: LD50: > 2 000 mg/kg	Species: rat

Administrative information:

Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

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.

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

Administrative information:

Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

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	
2,6,6,8-tetramethyl-9-acetyl-tricyclo{5.3.1.0(1,5)}undec-8-ene	: 1
M-Factor	
alpha cedrene	: 10
M-Factor	
2,4-DIMETHYL-2-(1,1,4,4,-TETRAMETHYLTETRALIN-6-YL)-1,3-DIOXOLANE	: 1
M-Factor	
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (alpha-pinene)	: 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
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
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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

Administrative information:

Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

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.

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

ADR/RID/ADN

UN number	:	3082
Description of the goods	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Beta Ionone, Tetramethyl-acetyl-tricycloundecene)
Transport hazard class(es)	:	9
Packing group	:	III
Hazard Identification Number	:	90
Labels	:	9
Tunnel restriction code	:	(E)
Environmentally hazardous	:	yes

IATA/ICAO

Administrative information:

Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

UN number : 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Beta Ionone, Tetramethyl-acetyl-tricycloundecene)
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
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Beta Ionone, Tetramethyl-acetyl-tricycloundecene)
Class : 9
Packing group : III
Labels : 9
EmS Fire : F-A
EmS Spillage : S-F

Marine pollutant : yes
Beta Ionone Tetramethyl-acetyl-tricycloundecene
IMDG Code Segregation Group : None

SECTION 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

SECTION 16. Other information

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

Administrative information:

Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ORRIS GIVCO 204-2-20

Version 6.1

Revision Date 18 DEC 2013

Print Date 18 DEC 2013

R10	Flammable.
R38	Irritating to skin.
R43	May cause sensitisation 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.

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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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Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/11

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 8179311/2640317