according to Regulation (EC) No. 1907/2006



# SPIROGALBANONE PURE

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

#### 1.1 Product identifier

Sales No. : SPIROGALBANONE PURE

Substance name : 1-spiro(4.5)-7-decen-7-yl-4-penten-1-one and 1-spiro(4.5)-6-

decen-7-yl-4-penten-1-one

Identifier

CAS : 224031-70-3 CAS : 224031-71-4

ELINCS: 438-060-9

REACH Registration Number : 01-0000018304-76-0001

If this is a flavouring for foodstuffs, then the exemption from REACH registration applies.

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

Intended Use Fragrances : Perfumery ingredient

## 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

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1 H410: Very toxic to aquatic life with long lasting

effects.

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

Dangerous for the environment R50/53: Very toxic to aquatic organisms, may

cause long-term adverse effects in the aquatic

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environment.

Irritant R43: May cause sensitization by skin contact.

#### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

H410 Very 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.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Hazardous components which must be listed on the label:

• 1-spiro(4.5)-7-decen-7-yl-4-penten- 224031-70-3

1-one and 1-spiro(4.5)-6-decen-7-yl-

4-penten-1-one

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

Hazard pictograms





Dangerous for the environment

Irritant

R-phrase(s) : R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic

environment.

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S-phrase(s) : S24 Avoid contact with skin.

Wear suitable gloves.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to

special instructions/ Safety data sheets.

Hazardous components which must be listed on the label:

• 1-spiro(4.5)-7-decen-7-yl-4-penten-1- 224031-70-3 one and 1-spiro(4.5)-6-decen-7-yl-4-

penten-1-one

#### 2.3 Other hazards

no data available

#### 3. Composition/information on ingredients

#### 3.1 Substances

| Chemical Name   | CAS-No.<br>EINECS-No. / ELINCS No. | Concentration [%] |
|---|------------------------------------|-------------------|
| 1-spiro(4.5)-7-decen-7-yl-4-<br>penten-1-one and 1-<br>spiro(4.5)-6-decen-7-yl-4-<br>penten-1-one | 224031-70-3<br>438-060-9           | >= 50 - <= 100    |

Hydrocarbons : 0 %

#### 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.

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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

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : no data available

#### 5. Firefighting measures

## 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical

Alcohol-resistant foam Carbon dioxide (CO2)

Water spray

Unsuitable extinguishing

media High vo

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.

#### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

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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.

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

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

7.3 Specific end uses

Specific use(s) : no data available

## 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 : 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 : yellow

Taste : not determined

Odour : green, fruity, Allylic, Earthy

Odour Threshold : 0,0233 ng/l

Flash point : 144 °C Method: Pensky-Martens closed cup

Lower explosion limit : not determined Upper explosion limit : not determined

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Flammability (solid, gas) : no data available Oxidizing properties : no data available

Autoignition temperature : 265 ℃

Method: DIN 51794

Decomposition temperature : no data available Molecular Weight : 218,30 g/mol pН : no data available

Melting point : < -50 ℃

: 296 ℃ at 1 013 hPa Boiling point : 0,0044 hPa at 20 ℃ Vapour pressure

Method: OECD Test Guideline 104

Density : 980,97 kg/m3 at 20 ℃

Bulk density
Water solubility
Solubility/qualitative
Partition coefficient: noctanol/water
Viscosity, kinematic
Relative vapour density
Surface tension

9 mg/l at 20 C
9 reactically inso
1 log Pow: 5,2
Method: OEC
1 no data availa
2 no data availa
67,3 mN/m at
Method: OEC Bulk density : not applicable : 9 mg/l at 20 ℃ : practically insoluble

Method: OECD Test Guideline 117

: no data available : no data available : 67,3 mN/m at 20 ℃

Method: OECD Test Guideline 115

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 : no data available

products

Thermal decomposition : no data available

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# 11. Toxicological information

## 11.1 Information on toxicological effects

**Acute toxicity** 

Acute oral toxicity : LD50 rat

Dose: > 2 000 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : This information is not available.

Acute dermal toxicity : LD50 rat

Dose: > 2 000 mg/kg

Method: OECD Test Guideline 402

of administration)

**Acute toxicity (other routes**: No data is available on the product itself.

Skin corrosion/irritation

Skin irritation : Species: rabbit

No skin irritation

Method: OECD Test Guideline 404

## Serious eye damage/eye irritation

Eye irritation : Species: rabbit

No eye irritation

Method: OECD Test Guideline 405

#### Respiratory or skin sensitization

Sensitisation : HRIPT Human

Result: Not sensitizing

at 0,1 % in Dimethyl phthalate Maximisation Test guinea pig Result: Causes sensitization.

Germ cell mutagenicity

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Genotoxicity in vitro : Ames test

negative

Method: Mutagenicity (Escherichia coli - reverse mutation

assay)

Chromosome aberration test in vitro

negative

Method: Mutagenicity (in vitro mammalian cytogenetic test)

Ames test negative

Method: Mutagenicity (Salmonella typhimurium - reverse

mutation assay)

Ames test negative

Method: Mutagenicity (Escherichia coli - reverse mutation

assay)

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

: No data is available on the product itself.

Toxicant - Single exposure

**Target Organ Systemic Toxicant - Repeated exposure** 

Target Organ Systemic : Species: rat
Toxicant - Repeated : NOAEL: 50 mg/kg

exposure Method: OECD Test Guideline 407

Repeated dose (28 days) toxicity (oral)

Target Organ Systemic Toxicant - Repeated exposure

**Aspiration hazard** 

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

**Phototoxicity** 

Phototoxicity : Phototoxicity guinea pig

Result:negative

Further information : no data available

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## 12. Ecological information

#### 12.1 Toxicity

Toxicity to fish : LC50: 1,5 mg/l

Exposure time: 96 h

Species: Cyprinus carpio (Carp) Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50: 0,26 mg/l

aquatic invertebrates

Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

: EC50: 0,48 mg/l Toxicity to algae

Exposure time: 72 h

Species: Selenastrum capricornutum (green algae)

Method: OECD Test Guideline 201

M-Factor

1-spiro(4.5)-7-decen-7-yl-4-

penten-1-one and 1spiro(4.5)-6-decen-7-yl-4-

penten-1-one

Toxicity to bacteria : no data available Toxicity to fish (Chronic : no data available :

toxicity)

Toxicity to daphnia and other : no data available

aquatic invertebrates (Chronic toxicity)

Acute aquatic toxicity
Chronic aquatic toxicity
Toxicity Data on Soil : no data available : no data available : no data available Other organisms relevant to : no data available

Biodegradability

the environment

12.2 Persistence and degradability

Method: OECD Test Guideline 301 F Result: Not inherently biodegradable.

: Result: Not readily biodegradable.

21 %

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Method: OECD Test Guideline 302 C

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Mobility : no data available Distribution among : no data available

environmental compartments

Additional advice

: no data available

Environmental fate and

pathways

Physico-chemical : no data available

removability

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Biochemical Oxygen

Demand (BOD)

Dissolved organic carbon

(DOC)

Chemical Oxygen Demand

(COD)

Adsorbed organic bound

halogens (AOX)

Additional ecological

information

: no data available

: no data available

: no data available : no data available

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal. Very toxic to aquatic life

with long lasting effects.

## 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.

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#### 14. Transport information

ADR/RID/ADN

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Spirogalbanone)

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.

(Spirogalbanone)

Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

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

Qty.)

**IMDG** 

UN number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Spirogalbanone)

Class : 9
Packing group : III
Labels : 9
EmS Fire : F-A
EmS Spillage : S-F

Marine pollutant : yes

Spirogalbanone

## 15. Regulatory information

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

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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

R43 May cause sensitization by skin contact.

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

in the aquatic environment.

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

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very 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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