according to Regulation (EC) No. 1907/2006

# Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

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

#### 1.1 Product identifier

Sales No. : 0010703

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-No. : 224031-70-3

224031-71-4

EC-No. : 438-060-9

Formula : C15-H22-O

REACH Registration Number : 01-0000018304-76

### 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 Call

Givaudan 24/7 call : +33172110003

Please refer to section 16 for a full list of emergency phone numbers, from Givaudan's 24/7 provider.

#### SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

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

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

Short-term (acute) aquatic hazard, H400: Very toxic to aquatic life.

Category 1

Administrative information:

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022

Print Date 30 JUN 2022

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)

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 mist or vapours. P273 Avoid release to the environment.

P280 Wear protective gloves.

Response:

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

advice/ attention.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

P391 Collect spillage.

Hazardous components which must be listed on the label:

• 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

### 2.3 Other hazards

Hazards not Otherwise Classified.

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Administrative information:

according to Regulation (EC) No. 1907/2006

# Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Chemical name	CAS-No. EC-No. REACH Registration Number	Concentration [Percent by weight]	M-Factor, SCL, ATE
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	224031-70-3 224031-71-4 438-060-9 01-0000018304-76	>= 90 - <= 100	M-Factor (Acute aquatic toxicity):1 Acute toxicity estimate
			Acute inhalation toxicity(dust/mist):> 5 mg/l

### 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 : Remove contact lenses.

Immediately flush eyes for at least 15 minutes. Get medical

attention.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : no data available Risks : no data available

Administrative information:

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

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

: no data available Treatment

### SECTION 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical

> Alcohol-resistant foam Carbon dioxide (CO2)

Water spray

Unsuitable extinguishing

media

: High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

#### 5.3 Advice for firefighters

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

### SECTION 6. Accidental release measures

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

Personal precautions : no data available

6.2 Environmental precautions

: Prevent product from entering drains. Environmental precautions

If the product contaminates rivers and lakes or drains inform

respective authorities.

### 6.3 Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel, Methods for cleaning up

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Not applicable

Administrative information:

Report Information: SDS\_FR/EN/GHS\_SDS\_EU\_CNTRY/39

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

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

### 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.

: Normal measures for preventive fire protection.

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

a...o

Temperature class : no data available Fire-fighting class : no data available Dust explosion class : no data available

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on

storage conditions

: Ambient / 10-30℃ (50 -85℉)
Dry, well ventilated, preferably full, hermetically sealed

: Protect against light.

Advice on common storage Storage class (TRGS 510)

: 10 Combustible liquids

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

Exposure assessment: Exposures are 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

Administrative information:

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

prod-uct's use or introduction. Exposure assessments should be performed by an occupational hygienist, industrial hygienist, or other qualified occupational or environmental health professional. An exposure assessment should be conducted to determine the efficacy of any ventilation and the need for additional PPE. The PPE indicated below are recommendations for worst-case scenario exposures. An exposure assessment will identify more applicable measures to be implemented. EN and ANSI standards are mentioned in the following recommendations, consult equivalent local standards when required.

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 on the use of PPE.

### 8.2.1 Engineering measures

Use engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use the product only with adequate ventilation.

## 8.2.2 Personal protective equipment

Eye/face protection : Use safety goggles tested according to EN 166/ ANSI Z87.1

or equivalent local standard.

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/ASTM F739 or equivalent local standard 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/ASTM F739 or equivalent local standard, tested for chemicals indicated in chapter 3 of this SDS.

Permeation time must exceed contact time.

Other skin protection : Wear working clothes covering arms and legs.

The type of protective equipment must be selected according to the concentration and amount of the hazardous substance at the specific workplace. Use apron and sleeve covers or

complete chemical suit if exposure is expected.

Respiratory protection : Respiratory protection should be worn when workplace

exposures exceed exposure limit requirements or guidelines. If there are no applicable exposure limits or guidelines, use an approved respirator where there is a potential for adverse effects, including but not limited to respiratory irritation or odor, or where indicated by the exposure assessment. Selection of air-purifying or positive-pressure supplied-air will depend on the results of the exposure assessment which includes an

Administrative information:

Report Information: SDS\_FR/EN/GHS\_SDS\_EU\_CNTRY/39 Sales & Distribution Information: VE01/FR/CH11/01

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022

Print Date 30 JUN 2022

evaluation of the specific operations and the potential airborne concentrations. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

In case a risk analysis proved the cartridge respirator as

acceptable, use type:

ABEK-P3 (EN 14387) OR Combination Multi-gas/P100 (42CFR84.193; ANSI Z88.7 or equivalent local standard) 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) or

NIOSH 42 CFR 84(US).

Thermal hazards : Wear appropriate thermal protective clothing, when

necessary.

Hygiene measures : Remove contaminated clothing and protective equipment

before entering eating areas.

Do not eat, drink or smoke during work.

Wash hands any time after handling the product.

### 8.2.3 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 : Pale yellow to 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 Flammability : Not flammable

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Information taken from reference works and the literature.

Auto-ignition temperature : 265 ℃ Method: DIN 51794

Decomposition temperature : no data available
Molecular weight : 218,30 g/mol
pH : no data available

Administrative information:

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

Melting point : < -50 ℃

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

Method: OECD Test Guideline 104

: 980,23 kg/m3 at 20 ℃ Density Bulk density : Not applicable
Water solubility : 9 mg/l at 20 °C
Solubility/qualitative : practically insoluble
Partition coefficient: n- : log Pow: 5,2

Method: OECD Test Guideline 117 octanol/water

Viscosity, kinematic : no data available Relative vapour density : no data available Surface tension : 67,3 mN/m at 20 ℃

Method: OECD Test Guideline 115

Evaporation rate : no data available Explosive properties : Not explosive

#### 9.2 Other information

Not applicable

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

none

#### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : no data available

### 10.6 Hazardous decomposition products

Hazardous decomposition

products

: no data available

Thermal decomposition : no data available

Administrative information:

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

### **SECTION 11. Toxicological information**

## 11.1 Information on toxicological effects

**Acute toxicity** 

**Acute oral toxicity** : LD50 Rat

Dose: > 5 000 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 Rat

> Exposure time: 4 h Dose: > 5,00 mg/l

Method: OECD Test Guideline 403

Acute inhalation toxicity

**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 eve irritation

Method: OECD Test Guideline 405

### Respiratory or skin sensitisation

Sensitisation : Local lymph node assay (LLNA) Mouse

Result: Causes sensitisation. Method: OECD Test Guideline 429

### Germ cell mutagenicity

: Ames test Genotoxicity in vitro

negative

Method: Mutagenicity (Salmonella typhimurium - reverse

mutation assay)

Administrative information:

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

Chromosome aberration test in vitro

negative

Method: Mutagenicity (in vitro mammalian cytogenetic test)

Ames test negative

Method: Mutagenicity (Salmonella typhimurium - reverse

mutation assay)

Carcinogenicity

Carcinogenicity : No data is available on the product itself.

**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, male and female

Toxicant - Repeated NOAEL: 200 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

11.2 Information on other hazards

**Endocrine disrupting properties** 

**Product:** 

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

Administrative information:

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

**Further information** 

**Product:** 

Remarks no data available

### SECTION 12. Ecological information

### 12.1 Toxicity

**Product:** 

Toxicity to fish LC50 (Cyprinus carpio (Carp)): 1,5 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,26 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

: ErC50 (Selenastrum capricornutum (green algae)): 2,06 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Toxicity to daphnia and other:

aquatic invertebrates (Chronic toxicity)

NOEC: 0,11 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

GLP: yes

: EC50 : > 100,0000000 mg/l Toxicity to microorganisms

Exposure time: 3 h

Method: OECD Test Guideline 209

GLP: yes

## Components:

4-Penten-1-one, 1-spiro[4.5]dec-6-en-7-yl-:

M-Factor (Acute aquatic

toxicity)

### 12.2 Persistence and degradability

### **Product:**

Administrative information:

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 6 % Exposure time: 28 d

Method: OECD Test Guideline 301 F

GLP: yes

Result: Not inherently biodegradable.

Biodegradation: 21 % Exposure time: 33 d

Method: OECD Test Guideline 302 C

GLP: yes

### 12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Species: Cyprinus carpio (Carp)

Concentration: 75 mg/l

Bioconcentration factor (BCF): 109 Method: OECD Test Guideline 305

GLP: yes

### 12.4 Mobility in soil

**Product:** 

Distribution among : OECD Test Guideline 121

environmental compartments log Koc: 3,6

Method: OECD Test Guideline 121

#### 12.5 Results of PBT and vPvB assessment

**Product:** 

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 Endocrine disrupting properties

**Product:** 

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:** 

Additional ecological

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Administrative information:

information

Report Information: SDS\_FR/EN/GHS\_SDS\_EU\_CNTRY/39 Sales & Distribution Information: VE01/FR/CH11/01

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

Very 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

### 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.

(Spirogalbanone)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Spirogalbanone)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Spirogalbanone)

**IATA** : Environmentally hazardous substance, liquid, n.o.s.

(Spirogalbanone)

## 14.3 Transport hazard class(es)

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

Administrative information:

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

**IATA** : 9

14.4 Packing group

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

REACH - Candidate List of Substances of Very High : Neither banned nor restricted

Concern for Authorisation (Article 59).

Major Accident Hazard : ENVIRONMENTAL HAZARDS

Legislation E1

Quantity 1: 100 t Quantity 2: 200 t

Water hazard class : WGK 2 obviously hazardous to water

Administrative information:

according to Regulation (EC) No. 1907/2006

# Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022

Print Date 30 JUN 2022

(Germany)

Code Number: 8 742

Classification according to AwSV, Annex 1 (4)

## 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16. Other information

## 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	0120 015 230
	Italy	800 699 792		Indonesia	007 803 011 0293
	Netherlands	+31 10 713 8195		Malaysia	+60 3 6207 4347
	Turkey	0800 621 2139 +44 1235 239670		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
	Bahrain and Middle East	+44 1235 239671		China	+86 532 8388 9090
	Africa/South Africa	+27 21 300 2732	LATAM	Mexico	+52 55 5004 8763
NOAM	USA and Canada	+1 866 928 0789		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

Administrative information:

according to Regulation (EC) No. 1907/2006

# Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

Global Global +44 1865 407333 Argentina +54 11 5984 3690

Administrative information:
Report Information: SDS\_FR/EN/GHS\_SDS\_EU\_CNTRY/39 Sales & Distribution Information: VE01/FR/CH11/01

according to Regulation (EC) No. 1907/2006

## Givaudan

## SPIROGALBANONE PURE

Version 4.0 Revision Date 30 JUN 2022

Print Date 30 JUN 2022

### 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; AIIC - Australian Inventory of Industrial Chemicals; 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; TECI - Thailand Existing Chemicals 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.

according to Regulation (EC) No. 1907/2006

# Givaudan

#### SPIROGALBANONE PURE Version 4.0 Revision Date 30 JUN 2022 Print Date 30 JUN 2022

Administrative information:
Report Information: SDS\_FR/EN/GHS\_SDS\_EU\_CNTRY/39
Sales & Distribution Information: VE01/FR/CH11/01