

# 503187 SPIROGALBANONE®

Revision Date: 03-31-2015 Page 1 of 11

Version # 01 Print Date: 11-23-2015

1. IDENTIFICATION

Product Description: SPIROGALBANONE®

CAS # 224031-70-3

Other means of identification

Vigon Item # 503187

Recommended use Concentrated aromatic ingredient which may be used fragrance compounds according to legal and

IFRA guidelines.

Recommended restrictions For Manufacturing Use Only

<u>Company</u> <u>24 Hour Emergency Response Information</u>

Vigon International, Inc. INFOTRAC (ACCT# 78928);

For information call: 570-476-6300

Web Site: www.vigon.com

### 2. HAZARD(S) IDENTIFICATION

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 5

Skin corrosion/irritation Category 3
Sensitization, skin Category 1
Hazardous to the aquatic environment, Category 1

Environmental hazards Hazardous to the aquatic environmental

acute hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

Label elements



Signal word Warning

Hazard statement

H303 May be harmful if swallowed.
H316 Causes mild 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.

Precautionary statement

Prevention

P261 Avoid breathing mist or vapor.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.



# 503187 SPIROGALBANONE®

Page 2 of 11 Revision Date: 03-31-2015

Version # 01 Print Date: 11-23-2015

> P280 Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.

P312 Call a POISON CENTER/doctor if you feel unwell.

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.

Storage Store away from incompatible materials.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substances**

Chemical name	Common name and synonyms	CAS number	%
1-spiro(4.5)-7-decen-7-yl-4-penter	- 4-Penten-1-one, 1-spiro[4.5]dec-7-en-7-yl-	224031-70-3	100
1-one and 1-spiro(4.5)-6-decen-			
7-yl-4-penten-1-one			

### 4. FIRST-AID MEASURES

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or

persist.

Skin contact Take off immediately all contaminated clothing. Get medical attention if irritation develops and

persists. Wash skin thoroughly with soap and water for several minutes.

Eye contact Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and

persists. Promptly wash eyes with plenty of water while lifting the eye lids.

Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if Ingestion

the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low

so that stomach vomit doesn't enter the lungs.

Most important

symptoms/effects, acute and

delayed

Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical

attention and special treatment

Not available.

needed

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray, fog, CO2, dry chemical, or alcohol resistant foam.



## 503187 SPIROGALBANONE®

Revision Date: 03-31-2015 Page 3 of 11

Version # 01 Print Date: 11-23-2015

Unsuitable extinguishing media

**guishing media** Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

Specific methods

Use water spray to cool unopened containers.

General fire hazards

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.



## 503187 SPIROGALBANONE®

Revision Date: 03-31-2015 Page 4 of 11

Version # 01 Print Date: 11-23-2015

Conditions for safe storage, including any incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible

pressure release. Store in a cool, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits No exposure limits noted for ingredient(s).

**Biological limit values**No biological exposure limits noted for the ingredient(s).

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

Hand protection Chemical resistant gloves.

Other Use of an impervious apron is recommended.

Respiratory protection Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must

be provided.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** Keep away from food and drink. Always observe good personal hygiene measures, such as

washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing

should not be allowed out of the workplace.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Refer to Spec Sheet

Physical state Liquid.
Form Liquid.

Color Refer to Spec Sheet

Odor Characteristic.
Odor threshold Not available.
pH Not available.

Melting point/freezing point  $< -58 \,^{\circ}\text{F} \,(< -50 \,^{\circ}\text{C})$ Initial boiling point and boiling  $564.8 \,^{\circ}\text{F} \,(296 \,^{\circ}\text{C})$ 

range

Flash point > 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.



# 503187 SPIROGALBANONE®

Revision Date: 03-31-2015 Page 5 of 11

Version # 01 Print Date: 11-23-2015

Vapor pressure 0 hPa at 20 °C

Vapor density 7.6

Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Molecular formulaC15H22OMolecular weight218.34 g/molSpecific gravity0.98 at 25 °C

### 10. STABILITY AND REACTIVITY

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid**Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products if stored and handled as indicated.

#### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Inhalation** No adverse effects due to inhalation are expected.

**Skin contact**Causes mild skin irritation. May cause an allergic skin reaction.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity May be harmful if swallowed. May cause an allergic skin reaction.

Product Species Test Results

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 (CAS 224031-70-3)

Acute

Dermal

LD50

> 2000 mg/kg OECD Test Guideline 402



# 503187 SPIROGALBANONE®

Revision Date: 03-31-2015 Page 6 of 11

Version # 01 Print Date: 11-23-2015

 Product
 Species
 Test Results

 Oral
 LD50
 Rat
 > 2000 mg/kg OECD Test Guideline 423

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes mild skin irritation.

Skin Irritation: Species: rabbit

No skin irritation

Method: OECD Test Guideline 404

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Eye irritation: Species: rabbit

No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

Sensitization: HRIPT Human

Result: Not sensitizing

at 0.1% in Dimethyl phthalate Maximisation Test guinea pig Result: Causes sensitization Method: OECD Test Guideline 406

Phototoxicity: guinea pig

Result: negative

Germ cell mutagenicity Genotoxicity in vitro: Ames test

negative

Method: Mutagenicity (Salmonella typhimunum - reverse mutatiion assay)

Chromosome aberration test in vitro

negative

Method: Mutagenicity (in vitro mammalian cytogenetic test)

Ames test negative

Method: Mutagenicity (Salmonella typhimunum - reverse mutation assay)

Ames test negative

Method: Mutagenicity (Escherichia coli - reverse mutation assay)

Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.



## 503187 SPIROGALBANONE®

Page 7 of 11 Revision Date: 03-31-2015

Print Date: 11-23-2015 Version # 01

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Further information

Target Organ Systemic: Species: rat, male and female Toxicant - Repeated exposure: NOAEL: 50 mg/kg

Method: OECD Test Guideline 407

Repeated dose (28 days) toxicity (oral)

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

**Product Species Test Results** 

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 (CAS 224031-70-3)

Aquatic

Acute

ErC50 Algae Green algae (Selenastrum 2.06 mg/l, 72 hr OECD 201

capricornutum)

Crustacea EC50 Daphnia magna 0.26 mg/l, 48 hr OECD 202 LC50 1.5 mg/l, 96 hr OECD 203 Fish Carp (Cyprinus carpio)

Persistence and degradability Biodegradability: Result: Not readily biodegradable

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

Method: OECD Test Guideline 302 C

Bioaccumulative potential No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. DISPOSAL CONSIDERATIONS

Disposal instructions Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain

into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or

used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code Not established.

Waste from residues / unused Empty containers or liners may retain some product residues. This material and its container must

products

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.



# 503187 SPIROGALBANONE®

Revision Date: 03-31-2015 Page 8 of 11

Version # 01 Print Date: 11-23-2015

#### 14. TRANSPORT INFORMATION

**ADN** 

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(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)

Transport hazard class(es) 9
Subsidiary class(es) Packing group III
Environmental hazards Yes
Labels required 9

ADR

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(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)

Transport hazard class(es) 9
Subsidiary class(es) Packing group III
Environmental hazards Yes
Labels required 9

**RID** 

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(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)

Transport hazard class(es) 9
Subsidiary class(es) Packing group III
Environmental hazards Yes
Labels required 9

DOT

**BULK** 

UN number 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(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)

Hazard class 9
Packing group III

**Environmental hazards** 

Marine pollutantYesPackaging exceptions155Packaging bulk241Labels required9

DOT

**NON-BULK** 

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.



# 503187 SPIROGALBANONE®

Revision Date: 03-31-2015 Page 9 of 11

Version # 01 Print Date: 11-23-2015

#### **IMDG**

3082 **UN** number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. UN proper shipping 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)

9 Transport hazard class(es) Subsidiary class(es) Packing group Ш **Environmental hazards** 

Marine pollutant

Yes Labels required

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

ADN; ADR; DOT BULK; IMDG; RID



#### Marine pollutant



### 15. REGULATORY INFORMATION

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US federal regulations** 

Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.



# 503187 SPIROGALBANONE®

Revision Date: 03-31-2015 Page 10 of 11

Version # 01 Print Date: 11-23-2015

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No



## 503187 SPIROGALBANONE®

Revision Date: 03-31-2015 Page 11 of 11

Version # 01 Print Date: 11-23-2015

Country(s) or region Inventory name On inventory (yes/no)\* Nο

European Inventory of Existing Commercial Chemical Europe

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS) No

Inventory of Existing and New Chemical Substances (ENCS) Japan No

Existing Chemicals List (ECL) Korea No

New Zealand New Zealand Inventory No

**Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue date 11-23-2015 03-31-2015 Revision date

Version # 01

United States & Puerto Rico

**HMIS®** ratings Health: 2

> Flammability: 1 Physical hazard: 0

Disclaimer Vigon cannot anticipate all conditions under which this information and its product, or the products

> to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Vigon's knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all

of other manufacturers in combination with its product, may be used. It is the user's responsibility

Yes

handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.