

1731005

Reviewed on: 20.12.2022  
Printing date: 20.12.2022

### SECTION 01: Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier**

- Trade name:  
BENZOIN SUMATRA RESINOID
- Article number:  
F4080
- CAS Number:  
9000-05-9
- EC Number:  
946-569-7
- No CAS EINECS:  
-
- Registration number  
01-2120754430-62-0002

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Application of the substance / the preparation  
Perfume ingredient  
Only for industrial use

**1.3 Details of the supplier of the safety data sheet**  
Manufacturer/Supplier:  
BIOLANDES, BP2                      TEL: +33(0)5.58.51.00.00  
2760 Route de Bélis                      email: fds@biolandes.com  
40420 LE SEN  
FRANCE

**1.4 Emergency telephone number:**  
FR-ORFILA (INRS):+33(0)1 45 42 59 59

### SECTION 02: Hazards identification

**2.1 Classification of the substance or mixture**  
• Classification according to Regulation (EC) No 1272/2008



GHS05

Eye Dam. 1 - H318 Causes serious eye damage.



GHS08

STOT RE 1 - H372 Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.  
Skin Sens. 1B - H317 May cause an allergic skin reaction.  
STOT SE 3 - H335 May cause respiratory irritation.

**2.2 Label elements**

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS05



GHS08



GHS07

- Signal word

Danger

- Hazard statements

H315 Causes skin irritation.

\*

H317 May cause an allergic skin reaction.

\*

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- \* H318 Causes serious eye damage.
- \* H335 May cause respiratory irritation.
- \* H372 Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.
- Precautionary statements
  - P260 Do not breathe dust/fume/gas/mist/vapours/spray.
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P264 Wash thoroughly after handling.
  - P302+P352 IF ON SKIN: Wash with plenty of water.
  - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
  - P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
- 2.3 Other hazards
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Determination of endocrine-disrupting properties
- \* Substance is not listed.

**SECTION 03: Composition/information on ingredients**

3.1 Substances

CAS No.	Description
9000-05-9	Styrax benzoin Dryand

- Identification number(s)
- EC number: 946-569-7

- Dangerous components:

CAS Number		%
65-85-0	<b>Benzoic acid</b> EC number: 200-618-2 ⚠ Eye Dam. 1 - H318; ⚠ STOT RE 1 - H372; ⚠ Skin Irrit. 2 - H315	10,001-20,00
* 103-41-3	<b>Benzyl cinnamate</b> ⚠ Skin Sens. 1B - H317; ⚠ Aquatic Chronic 2 - H411	1,001- 5,00
* 120-51-4	<b>Benzyl benzoate</b> EC number: 204-402-9 ⚠ Acute Tox. 4 - H302; ⚠ Aquatic Acute 1 - H400, Aquatic Chronic 2 - H411	0,101-1,00
* 104-54-1	<b>Cinnamyl alcohol</b> EC number: 203-212-3 ⚠ Skin Sens. 1B - H317	0,101-1,00
* 104-55-2	<b>cinnamaldehyde</b> EC number: 203-213-9 ⚠ Acute Tox. 4 - H312, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1A - H317	0,01-0,100

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#### SECTION 04: First aid measures

##### 4.1 Description of first aid measures

- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
Seek immediate medical advice.
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.
- **After skin contact:**  
If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Immediately rinse with water.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Seek immediate medical advice.
- **Information for doctor:**

**4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### SECTION 05: Firefighting measures

##### 5.1 Extinguishing media

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:**  
Water with full jet

**5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.

##### 5.3 Advice for firefighters

- **Protective equipment:**  
Mount respiratory protective device.  
Do not inhale explosion gases or combustion gases.
- **Additional information**  
Cool endangered receptacles with water spray.

#### SECTION 06: Accidental release measures

- \* **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.

**6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.

**6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

**6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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### SECTION 07: Handling and storage

- 7.1 Precautions for safe handling
- \* Thorough dedusting.  
 Keep receptacles tightly sealed.  
 Keep away from heat and direct sunlight.  
 Ensure good ventilation/exhaustion at the workplace.  
 Handle with care. Avoid jolting, friction and impact.
- Information about fire - and explosion protection:  
 Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:  
 Store only in the original receptacle.  
 Use only receptacles specifically permitted for this substance/ product.
  - Information about storage in one common storage facility:
- \* Not required.
- Further information about storage conditions:  
 Keep container tightly sealed.  
 Protect from heat and direct sunlight.  
 Store receptacle in a well ventilated area.
- 7.3 Specific end use(s)
- No further relevant information available.

### SECTION 08: Exposure controls/personal protection

- \* 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:  
 Not required.
  - Additional information:  
 The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Individual protection measures, such as personal protective equipment
  - General protective and hygienic measures:  
 The usual precautionary measures are to be adhered to when handling chemicals.  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.
  - \* Store protective clothing separately.
  - \* Do not inhale gases / fumes / aerosols.
  - \* Do not inhale dust / smoke / mist.
  - \* Avoid contact with the skin.
  - \* Avoid contact with the eyes.
  - Respiratory protection:  
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
 Suitable respiratory protective device recommended.  
 Use suitable respiratory protective device in case of insufficient ventilation.
  - Protection of hands:  
 Protective gloves  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - Material of gloves  
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
  - Penetration time of glove material  
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - Eye/face protection  
 Safety glasses

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SECTION 09: Physical and chemical properties	
<b>9.1 Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Physical state</b>	Solid
<b>Colour:</b>	brown
<b>Odour:</b>	balsamic
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	53,40 - 60,70 °C
<b>Boiling point or initial boiling point and boiling range</b>	Not determined.
<b>Flammability</b>	Not determined.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Flash point:</b>	> 93,0 °C NFT 60-103 CC
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not applicable.
<b>Dynamic:</b>	Not applicable.
<b>Solubility</b>	
<b>water:</b>	Not determined.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	at 20,00 °C 9,2500 mbar
<b>Density and/or relative density</b>	
<b>Density:</b>	Not determined.
<b>Relative density</b>	1,2210 20°C not available
<b>Vapour density</b>	Not applicable.
<b>9.2 Other information</b>	
No further relevant information available.	
<b>Appearance:</b>	
<b>Form:</b>	solid
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Auto-ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Not determined.
<b>Solvent content:</b>	
<b>Solids content:</b>	0,00 %
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not applicable.
<b>Information with regard to physical hazard classes</b>	
<b>Explosives</b>	not applicable
<b>Flammable gases</b>	not applicable
<b>Aerosols</b>	not applicable
<b>Oxidising gases</b>	not applicable
<b>Gases under pressure</b>	not applicable
<b>Flammable liquids</b>	not applicable
<b>Flammable solids</b>	not applicable
<b>Self-reactive substances and mixtures</b>	not applicable
<b>Pyrophoric liquids</b>	not applicable
<b>Pyrophoric solids</b>	not applicable
<b>Self-heating substances and mixtures</b>	not applicable

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*	<b>Substances and mixtures, which emit flammable gases in contact with water</b>	not applicable
*	<b>Oxidising liquids</b>	not applicable
*	<b>Oxidising solids</b>	not applicable
*	<b>Organic peroxides</b>	not applicable
*	<b>Corrosive to metals</b>	not applicable
*	<b>Desensitised explosives</b>	not applicable

\* **SECTION 10: Stability and reactivity**

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

Not determined.

**SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity

LD/LC50 values relevant for classification:

**ISO LD/LC**

**9000-05-9 Styrax benzoin Dryand**  
Oral, LD50: >5000 mg/kg (rat) (OECD 401 (1970))

**65-85-0 Benzoic acid**  
Oral, LD50: 2565 mg/kg (rat) (OECD SIDS 2001)  
Dermal, LD50: >2000 mg/kg (Rabbit) (Opdyke 1973)  
Inhalative, LC50/4h: >4,178 mg/l (rat) (Bayer AG 1990)

\* **103-41-3 Benzyl cinnamate**  
Oral, LD50: 3280 mg/kg (rat) (Wolven 1972)

\* **120-51-4 Benzyl benzoate**  
Oral, LD50: 1700 mg/kg (rat)  
Oral, LD50: 3450 mg/kg (mouse) (Bier, 1979)  
Dermal, LD50: 4000 mg/kg (Rabbit)

\* **104-54-1 Cinnamyl alcohol**  
Oral, LD50: 2000 mg/kg (rat)  
Dermal, LD50: >5000 mg/kg (Rabbit)

\* **104-55-2 cinnamaldehyde**  
Oral, LD50: 2220 mg/kg (rat)  
• Primary irritant effect:  
- Skin corrosion/irritation

**9000-05-9 Styrax benzoin Dryand**  
Irritation of skin, OECD 431: NOT CORROSIVE (in vitro) (Reach files)

**65-85-0 Benzoic acid**  
Irritation of skin, OECD 404 DRAIZE: NOT CLASSIFIED (guinea Pig) (OCDE SIDS 2001)

\* Irritant to skin and mucous membranes.  
Causes skin irritation.  
\* - Serious eye damage/irritation  
Strong irritant with the danger of severe eye injury.  
\* Causes serious eye damage.

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- \* • Respiratory or skin sensitisation
- \* **120-51-4 Benzyl benzoate**
- \* Sensitisation, NESIL: 59000 ug/cm<sup>2</sup> (human being) (Standard IFRA)
- \* **104-55-2 cinnamaldehyde**
- \* Dermal, OECD 429 LLNA: SENSITIZER (mouse) (EC3 1,1%, RIFM 2004)
- \* • Germ cell mutagenicity
- 9000-05-9 Styrax benzoin Dryand**
- OECD 471 AMES: NEGATIVE (in vitro) (Reach files)
- 65-85-0 Benzoic acid**
- OECD 471 AMES: NEGATIVE (in vitro) (OCDE SIDS 2001)
- \* **103-41-3 Benzyl cinnamate**
- \* OECD 471 AMES: NEGATIVE (in vitro) (Florin 1980)
- \* **120-51-4 Benzyl benzoate**
- \* OECD 471 AMES: NEGATIVE (in vitro) (Schunk and al., 1986)
- \* **104-55-2 cinnamaldehyde**
- \* OECD 471 AMES: NEGATIVE (in vitro) (NTP 2004)
- \* • Carcinogenicity
- 65-85-0 Benzoic acid**
- Micronoyau: NEGATIVE (mouse) (Hayashi and al., 1988)
- \* **104-55-2 cinnamaldehyde**
- \* Micronoyau: NEGATIVE (mouse) (NTP 2004)
- \* • Reproductive toxicity
- Not determined.
- \* • STOT-single exposure
- May cause respiratory irritation.
- \* • STOT-repeated exposure
- Causes damage to organs through prolonged or repeated exposure.the
- \* • Aspiration hazard
- Not determined.
- \* • Subacute to chronic toxicity:
- 65-85-0 Benzoic acid**
- Oral, NOAEL: >750 mg/kg (rat) (4 generation study, Kieckebush and Lang 1960)
- \* **103-41-3 Benzyl cinnamate**
- \* Oral, NOAEL: 500 mg/kg (rat) (19 weeks, Hagan 1967)
- 11.2 Information on other hazards
- \* • Endocrine disrupting properties
- \* Substance is not listed.

**SECTION 12: Ecological information**

12.1 Toxicity

- Aquatic toxicity:

**9000-05-9 Styrax benzoin Dryand**  
CE50/48h: >100 mg/l (daphnia) (OECD 202)  
ErC50(0-72h): >100 mg/l (algae) (OECD 201)

**65-85-0 Benzoic acid**  
CE50/48h: >100 mg/l (daphnia) (pH 8,4 ; OECD SIDS 2001)  
ErC50(0-72h): >1630 mg/l (algae) (pH 7 ; Bringmann and al., 1977)  
96h-LC50: 47,3 mg/l (fish) (Buzzel and al., 1968)

- \* **104-55-2 cinnamaldehyde**
- \* ErC50(0-48h): 3,86 mg/l (daphnia) (RIFM 2003)
- \* 96h-LC50: 4,15 mg/l (fish) (RIFM 1993)

12.2 Persistence and degradability  
No further relevant information available.

- Behaviour in environmental systems:  
Not determined.

12.3 Bioaccumulative potential  
No further relevant information available.

12.4 Mobility in soil  
No further relevant information available.

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12.5 Results of PBT and vPvB assessment

- PBT:  
Not applicable.
- vPvB:  
Not applicable.

12.6 Endocrine disrupting properties

\* The product does not contain substances with endocrine disrupting properties.

12.6 Other adverse effects

No further relevant information available.

- Ecotoxicological effects:  
Not determined.

**SECTION 13: Disposal considerations**

13.1 Waste treatment methods

- Recommendation  
Must be specially treated adhering to official regulations.
- Uncleaned packaging:  
Recommendation:
- Recommendation:  
Disposal must be made according to official regulations.

**SECTION 14: Transport information**

14.1 UN number or ID number

**ADR** Void

**IMDG** Void

**IATA** Void

14.2 UN proper shipping name

**ADR** Void

**IMDG** Void

**IATA** Void

14.3 Transport hazard class(es)

**ADR** Void

**Class** Void

**IMDG** Void

**Class** Void

**IATA** Void

**Class** Void

14.4 Packing group

**ADR** Void

**IMDG** Void

**IATA** Void

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

- Transport/Additional information:  
Not applicable.

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### SECTION 15: Regulatory information

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

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II  
\* Substance is not listed.
- REGULATION (EU) 2019/1148
- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))  
\* Substance is not listed.
- Annex II - REPORTABLE EXPLOSIVES PRECURSORS  
\* Substance is not listed.
- Regulation (EC) No 273/2004 on drug precursors  
\* Substance is not listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors  
\* Substance is not listed.
  
- National regulations:
  
- Waterhazard class:  
Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

The information in this safety data sheet is based on the state of our knowledge at the date indicated. The information in this sheet must be regarded as a description of the safety requirements for the product, they are not to be considered a warranty or quality specification and have no contractual value on properties and application areas thereof. The information contained in this safety data sheet relate to the specific material designated and may not be valid with respect to the product associated with another product or process, unless it is specified in the text of this document.

The required information complies with EU regulations in force. It does not exempt the user from knowing and applying all the national regulations in force.

- Relevant phrases
 

* H302	Harmful if swallowed.
* H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H372	Causes damage to organs through prolonged or repeated exposure. the respiratory system Route of exposure: Inhalation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
  
- Training hints  
Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in the purpose of facilitating the understanding and interpretation of this form of safety data in the same way as the labeling of the product.
  
- Abbreviations and acronyms:  
IFRA:International Fragrance Association IOFI:International Organization of the Flavor Industry IFRA:International Fragrance Association IOFI:International Organization of the Flavor Industry  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation DOT: US Department of Transportation  
IATA: International Air Transport Association IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation ICAO: International Civil Aviation Organisation  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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EINECS: European Inventory of Existing Commercial Chemical Substances EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society) CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative vPvB: very Persistent and very Bioaccumulative  
CE50: effective concentration at 50% ErC50: concentration of test substance which results in a 50 percent reduction in either growth rate (ErC50) relative to the control within 72hrs exposure.

- Sources  
IFRA/IOFI Labelling Manual, REACH registration dossier, supplier information
- \* Data compared to the previous version altered.