BIOLANDES

CHEMICAL SAFETY DATA SHEET

According to 91/155 EEC

3150300

Reviewed on: 08.12.2025
Printing date: 08.12.2025

01 Identification of the substance/mixture and of the company/undertaking

Product identifier

- Trade name:
  STYRAX EAL RESINOID
- Article number:
  P00547505000
- CAS Number:
  8024-01-9
- EC Number:
  232-458-4
- No CAS EINECS:
  8046-19-3

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

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

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

02 Hazards identification

Classification of the substance or mixture
H227 Combustible liquid.
Aquatic Chronic 4 - H413 May cause long lasting harmful effects to aquatic life.

Label elements
- GHS label elements
- Hazard pictograms
  Not classified
- Signal word
  Warning
- Hazard statements
  H227 Combustible liquid.
  H413 May cause long lasting harmful effects to aquatic life.
- Precautionary statements
  P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  P273 Avoid release to the environment.
  P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
  P370+P378 In case of fire: Use CO_2, powder or water spray to extinguish.
  P403 Store in a well-ventilated place.
  P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

03 Composition/information on ingredients

Chemical characterization: Substances

CAS No.	Description
8024-01-9	Liquidambar styraciflua L.

- Identification number(s)
- EC number:
  232-458-4

- Dangerous components:

CAS Number		%
122-69-0	**Cinnamyl cinnamate** EC number: 204-566-1	**50,001-100**

(continued on page 2)

BIOLANDES

CHEMICAL SAFETY DATA SHEET

According to 91/155 EEC

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PRODUCT : STYRAX EAL RESINOID

(continued of page 1)

	Acute Tox. 5 - H303	
104-54-1	**CINNAMYL ALCOHOL** EC number: 203-212-3 Acute Tox. 4 - H302, Skin Sens. 1B - H317; Aquatic Chronic 2 - H411	**1,001- 5,000**
103-41-3	**BENZYL CINNAMATE** EC number: 203-109-3 Skin Sens. 1B - H317; Acute Tox. 5 - H303; Aquatic Chronic 2 - H411	**1,001- 5,000**
87-44-5	**BETA-CARYOPHYLLENE** EC number: 201-746-1 Asp. Tox. 1 - H304; Skin Sens. 1B - H317	**0,101-1,000**
100-42-5	**styrene** EC number: 202-851-5 Repr. 2 - H361, STOT RE 1 - H372, Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Serious eye damage/irritation - Category 2A - H319, STOT SE 3 - H335; Aquatic Acute 2 - H401, Aquatic Chronic 3 - H412	**0,101-1,000**
104-55-2	**CINNAMAL** EC number: 203-213-9 Acute Tox. 4 - H312, Skin Irrit. 2 - H315, Serious eye damage/irritation - Category 2A - H319, Skin Sens. 1A - H317; Acute Tox. 5 - H303, Aquatic Acute 2 - H401, Aquatic Chronic 3 - H412	**0,010-0,100**

04 First aid measures

- General information:
  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.
- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
  Seek immediate medical advice.

05 Firefighting measures

- Suitable extinguishing agents:
  CO2, 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

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

- Protective equipment:
  Do not inhale explosion gases or combustion gases.

(continued on page 3)

BIOLANDES

CHEMICAL SAFETY DATA SHEET

According to 91/155 EEC

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PRODUCT : STYRAX EAL RESINOID

(continued of page 2)

- Additional information
  Cool endangered receptacles with water spray.

06 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.

Environmental precautions:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to item 13.

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.

07 Handling and storage

- Handling:

Precautions for safe handling
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.

Storage:

- Requirements to be met by storerooms and receptacles:
  Store only in the original receptacle.
  Use only receptacles specifically permitted for this substance/ product.
- Further information about storage conditions:
  Keep container tightly sealed.
  Protect from heat and direct sunlight.
  Store receptacle in a well ventilated area.

Specific end use(s)
No further relevant information available.

08 Exposure controls/personal protection

- Ingredients with limit values that require monitoring at the workplace:
  Not required.
- CAS No. Designation of material % Type Value Unit
  Not required.
- Additional information:
  The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:
  The usual precautionary measures are to be adhered to when handling chemicals.
  Wash hands before breaks and at the end of work.
- Respiratory protection:
  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

(continued on page 4)

BIOLANDES

CHEMICAL SAFETY DATA SHEET

According to 91/155 EEC

3150300

Reviewed on: 08.12.2025
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PRODUCT : STYRAX EAL RESINOID

(continued of page 3)

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 protection:
  Safety glasses

09 Physical and chemical properties

General Information	
Appearance:	
Form:	viscous
Colour:	yellow, orange-brown
Physical state	Liquid
Odour:	balsamic
Odour threshold:	Not determined.
Change in condition	
Initial boiling point and boiling range:	Not determined.
Flash point:	66,0 °C NFT 60-103 CC
Flammability (solid, gas):	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Vapour pressure:	Not determined.
Density:	Not determined.
Relative density :	1,0420 1,0520 D20/20
Solubility in / Miscibility with	
water:	Not determined.
Partition coefficient: n-octanol/water:	Not determined.
Other information	No further relevant information available.

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:
Not determined.

Incompatible materials:
No further relevant information available.

Hazardous decomposition products:
Not determined.

11 Toxicological information

- Acute toxicity
- LD/LC50 values relevant for classification:

ISO LD/LC

8024-01-9 Liquidambar styraciflua L.
Oral, LD50: >2000 mg/kg (algae) (OECD 423 (2017)

104-54-1 CINNAMYL ALCOHOL
Oral, LD50: 2000 mg/kg (rat)
Dermal, LD50: >5000 mg/kg (Rabbit)

103-41-3 BENZYL CINNAMATE
Oral, LD50: 3280 mg/kg (rat) (Wolven 1972)

87-44-5 BETA-CARYOPHYLLENE
Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)

100-42-5 styrene

(continued on page 5)

BIOLANDES

CHEMICAL SAFETY DATA SHEET

According to 91/155 EEC

3150300

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PRODUCT : STYRAX EAL RESINOID

(continued of page 4)

Oral, LD50: 5000 mg/kg (rat)
Inhalative, LC50/4h: 24 mg/l (rat)

104-55-2 CINNAMAL
Oral, LD50: 2220 mg/kg (rat)

- Primary irritant effect:
- Skin corrosion/irritation
  No irritant effect.
- Serious eye damage/irritation
  No irritating effect.
- Respiratory or skin sensitisation

104-55-2 CINNAMAL
Dermal, OECD 429 LLNA: SENSITIZER (mouse) (EC3 1,1%, RIFM 2004)

- Subacute to chronic toxicity:

103-41-3 BENZYL CINNAMATE
Oral, NOAEL: 500 mg/kg (rat) (19 weeks, Hagan 1967)

- Germ cell mutagenicity

103-41-3 BENZYL CINNAMATE
OECD 471 AMES: NEGATIVE (in vitro) (Florin 1980)

87-44-5 BETA-CARYOPHYLLENE
OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)

104-55-2 CINNAMAL
OECD 471 AMES: NEGATIVE (in vitro) (NTP 2004)

- Carcinogenicity

100-42-5 styrene
Micronoyau: NEGATIVE (mouse) (INRS 2016)

104-55-2 CINNAMAL
Micronoyau: NEGATIVE (mouse) (NTP 2004)

- Reproductive toxicity
  Not determined.
- STOT-single exposure
  Not determined.
- STOT-repeated exposure
  Not determined.
- Aspiration hazard
  Not determined.

12 Ecological information

- Aquatic toxicity:

8024-01-9 Liquidambar styraciflua L.
CE50/48h: 7,8 mg/l (daphnia) (OECD 202 (2017)
ErC50(0-72h): 0,13 mg/l (algae) (OECD 201 (2017)

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

Persistence and degradability

8024-01-9 Liquidambar styraciflua L.
OECD 301: 38 % (in vitro) (301B 28 days, 2017)

- Behaviour in environmental systems:
  Not determined.

Bioaccumulative potential
No further relevant information available.

- Ecotoxical effects:
  Not determined.

(continued on page 6)

BIOLANDES

CHEMICAL SAFETY DATA SHEET

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PRODUCT : STYRAX EAL RESINOID

(continued of page 5)

13 Disposal considerations

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

14 Transport information

UN-Number

. **ADR**	Not classified
. **IMDG**	Not classified
. **IATA**	Not classified

UN proper shipping name

. **ADR**	Not classified
. **IMDG**	Not classified
. **IATA**	Not classified

Transport hazard class(es)

. **ADR**	
. **Class**	Not classified
. **IMDG**	
. **Class**	Not classified
. **IATA**	
. **Class**	Not classified

Packing group

. **ADR**	Not classified
. **IMDG**	Not classified
. **IATA**	Not classified

Environmental hazards:
Not applicable.

Special precautions for user
Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

15 Regulatory information

- PFAS
  None of the ingredients is listed.

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

(continued on page 7)

BIOLANDES

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PRODUCT : STYRAX EAL RESINOID

(continued of page 6)

H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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
  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)
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ICAO: International Civil Aviation Organisation
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent

- Sources
  IFRA/IOFI Labelling Manual,REACH registration dossier,supplier information

- * Data compared to the previous version altered.