

1684706

Reviewed on: 17.04.2025
 Printing date: 17.04.2025

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

1.1 Product identifier

- Trade name:
FIR BALSAM RESINOID
- Article number:
F1423
- CAS Number:
8021-28-1
- EC Number:
947-304-8
- No CAS EINECS:
-
- Registration number
01-2120762420-63-0000

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
Not classified

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms
Not classified
- Signal word
Not classified
- Hazard statements
Not classified

2.3 Other hazards

- Results of PBT and vPvB assessment
- PBT:
Not applicable.
- vPvB:
Not applicable.
- Determination of endocrine-disrupting properties
None of the ingredients is listed.

SECTION 03: Composition/information on ingredients

3.1 Substances

CAS No.	Description
8021-28-1	Abies balsamea (L.) Mill.

- Identification number(s)
- EC number:
947-304-8

• Dangerous components:

CAS Number

%

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* 118-71-8	Maltol	20,001-50,00
*	EC number: 204-271-8	
*	⚠ Acute Tox. 4 - H302	
* 507-70-0	I-Borneol	1,001- 5,000
*	EC number: 208-080-0	
*	⚠ Flam. Sol. 2 - H228; ⚠ Skin Irrit.	
*	2 - H315	
* 475-20-7	longifolene	0,101-1,000
*	EC number: 207-491-2	
*	⚠ Asp. Tox. 1 - H304; ⚠ Skin Irrit.	
*	2 - H315, Skin Sens. 1B - H317; ⚠	
*	Aquatic Acute 1 - H400 (M=10), Aquatic	
*	Chronic 1 - H410 (M=10)	
* 106-23-0	CITRONELLAL	0,101-1,000
*	EC number: 203-376-6	
*	⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*	H319, Skin Sens. 1B - H317	
* 127-91-3	BETA-PINENE	0,101-1,000
*	EC number: 204-872-5	
*	⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3	
*	- H226; ⚠ Skin Irrit. 2 - H315, Skin	
*	Sens. 1B - H317	

SECTION 04: First aid measures

4.1 Description of 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.
- 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:
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

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

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- Protective equipment:
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

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:

Pick up mechanically.

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.

SECTION 07: Handling and storage

7.1 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.

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.
Wash hands before breaks and at the end of work.
- Respiratory protection:
Use suitable respiratory protective device in case of insufficient ventilation.

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- 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
- Body protection:
Impervious protective clothing
Boots

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Solid
Colour:	dark green to brown-green
Odour:	woody
Odour threshold:	Not determined.
Melting point/freezing point:	0,30 - 14,20 °C
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	132,5 °C NFT 60-103 CC
Decomposition temperature:	Not determined.
pH	Not applicable.
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water:	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	at 20,00 °C 7,1700 mbar at 25,00 °C 9,8500 mbar
Density and/or relative density	
Density:	Not determined.
Relative density	1,0567 20°C not available
Vapour density	Not applicable.

9.2 Other information

Appearance:	No further relevant information available.
Form:	resinous material
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Solvent content:	
Solids content:	0,00 %

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Change in condition

Evaporation rate	Not applicable.
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Information with regard to physical hazard classes

Explosives	not applicable
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Flammable gases	not applicable
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Aerosols	not applicable
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Oxidising gases	not applicable
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Gases under pressure	not applicable
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Flammable liquids	not applicable
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Flammable solids	not applicable
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Self-reactive substances and mixtures	not applicable
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Pyrophoric liquids	not applicable
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Pyrophoric solids	not applicable
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Self-heating substances and mixtures	not applicable
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Substances and mixtures, which emit flammable gases in contact with water	not applicable
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Oxidising liquids	not applicable
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Oxidising solids	not applicable
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Organic peroxides	not applicable
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Corrosive to metals	not applicable
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Desensitised explosives	not applicable
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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.

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

8021-28-1 **Abies balsamea (L.) Mill.**

Oral, LD50: >2000 mg/kg (rat) (OECD 420 2015)

*

118-71-8 Maltol

*

Oral, LD50: 2330 mg/kg (rat) (Moreno 1974)

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

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- Germ cell mutagenicity
Not determined.
- Carcinogenicity
Not determined.
- Reproductive toxicity
Not determined.
- STOT-single exposure
Not determined.
- STOT-repeated exposure
Not determined.
- Aspiration hazard
Not determined.
- * • Subacute to chronic toxicity:
- * **118-71-8 Maltol**
- * Oral, NOAEL: 750 mg/kg (mouse) (Bhathal and al., 1984)
- Additional toxicological information:
The substance is not subject to classification according to the latest version of the EU lists.
- 11.2 Information on other hazards
- Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity:
- 8021-28-1 Abies balsamea (L.) Mill.
CE50/48h: >100 mg/l (daphnia) (OECD 202)
ErC50(0-72h): >1000 mg/l (algae) (OECD 201 readcross)

12.2 Persistence and degradability

- 8021-28-1 Abies balsamea (L.) Mill.
OECD 301: 43.17 % (in vitro) (301F 2015)
Not easily biodegradable
- 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.

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.

12.7 Other adverse effects

- No further relevant information available.
- Ecotoxicological effects:
Not determined.
 - Additional ecological information:
 - General notes:
Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Recommendation
Must be specially treated adhering to official regulations.
- Uncleaned packaging:

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- Recommendation:
Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

- | | |
|---------------|----------------|
| • ADR | Not classified |
| • IMDG | Not classified |
| • IATA | Not classified |

14.2 UN proper shipping name

- | | |
|---------------|----------------|
| • ADR | Not classified |
| • IMDG | Not classified |
| • IATA | Not classified |

14.3 Transport hazard class(es)

- | | |
|----------------|----------------|
| • ADR | |
| • Class | Not classified |
| • IMDG | |
| • Class | Not classified |
| • IATA | |
| • Class | Not classified |

14.4 Packing group

- | | |
|---------------|----------------|
| • ADR | Not classified |
| • IMDG | Not classified |
| • IATA | Not classified |

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.

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
None of the ingredients is listed.
- REGULATION (EU) 2019/1148
- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.
- Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.
- Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.
- National regulations:
- Technical instructions (air):
- Class Share in %
I 0,16
- Waterhazard class:
Water hazard class 2 (Self-assessment): hazardous for water.

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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

- | | | |
|---|------|---|
| | H226 | Flammable liquid and vapour. |
| | H228 | Flammable solid. |
| * | H302 | Harmful if swallowed. |
| * | H304 | May be fatal if swallowed and enters airways. |
| * | H315 | Causes skin irritation. |
| * | H317 | May cause an allergic skin reaction. |
| * | H319 | Causes serious eye irritation. |
| * | H400 | Very toxic to aquatic life. |
| * | H410 | Very 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.

- * Date of previous version:
12.11.2024

- * Version number of previous version:
2.00

- 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
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

- Sources

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

- * Data compared to the previous version altered.