

CHEMICAL SAFETY DATA SHEET
according to 1907/2006/EC Article 31, as amended by N°
453/2010

1704302

Reviewed on: 26/02/18
Printing date: 26/02/2018

PRODUCT : STYRAX EAL RESINOID

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- Dangerous components:

CAS Number		%
* 104-54-1	Cinnamyl alcohol	1,01- 5,00
*	EC number: 203-212-3	
*	⚠ Skin Sens. 1B - H317	
* 103-41-3	Benzyl cinnamate	1,01- 5,00
*	⚠ Skin Sens. 1B - H317; ⚠ Aquatic	
*	Chronic 2 - H411	
* 100-42-5	styrene	0,10-1,00
*	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, Eye Irrit. 2 - H319, STOT SE 3 - H335;	
*	Aquatic Chronic 3 - H412	

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.
Immediately wash with water and soap and rinse thoroughly.
- 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

No further relevant information available.

5.3 Advice for firefighters

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

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SECTION 06: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
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 of the material collected according to regulations.

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

• Handling:

7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

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 in a cool location.

• Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

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.

CAS No.	Designation of material	%	Type	Value	Unit
Not required.					

Not required.

• Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls

• Personal protective equipment:

• General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Avoid contact with the skin.

• 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

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

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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

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

*	Form:	viscous
	Colour:	yellow, dark orange
	Odour:	balsamic
	Odour threshold:	Not determined.

Change in condition

*	Initial boiling point and boiling range:	Not determined.
	Flash point:	66 °C NPT 60-103 CC

Flammability (solid, gas): Not determined.

Auto-ignition temperature: 435°C

Explosive properties: Not determined.

Vapour pressure: Not determined.

Density: Not determined.

* **Relative density :** 1,0800 20°C

Solubility in / Miscibility with

water: Not determined.

Partition coefficient: n-octanol/water: Not determined.

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

* No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:
Not determined.

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 toxicological effects

- * • 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**

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- * Oral, LD50: 2000 mg/kg (rat)
- * Dermal, LD50: >5000 mg/kg (Rabbit)
- * **103-41-3 Benzyl cinnamate**
- * Oral, LD50: 5530 mg/kg (rat)
- * **100-42-5 styrene**
- * Oral, LD50: 5000 mg/kg (rat)
- * Inhalative, LC50/4h: 24 mg/l (rat)
- * • Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: No irritating effect.
 - Sensitization: Sensitization possible through skin contact.
- * • Subacute to chronic toxicity: Not determined.

SECTION 12: Ecological information

- * 12.1 Toxicity
 - 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))
- 12.2 Persistence and degradability
Not determined.
 - 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.
 - Ecotoxicological effects: Not determined.
 - Additional ecological information:
 - General notes: Do not allow product to reach ground water, water course or sewage system.
- 12.5 Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.
- 12.6 Other adverse effects
No further relevant information available.

SECTION 13: Disposal considerations

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

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SECTION 14: Transport information

14.1 UN-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**Class** Void**IMDG****Class** Void**IATA****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 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

- Transport/Additional information:
Not applicable.

SECTION 15: Regulatory information

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

- REGULATION (EC) No 1907/2006 ANNEX XVII
Conditions of restriction: 3

*

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.
- * 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.
- * 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.

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|---|------|--|
| * | 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
 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.