

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

1733701

Reviewed on: 22/12/20
 Printing date: 24/12/2020

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

1.1 Product identifier

- Trade name:
ROSE WATER CONCENTRATE
- Article number:
E4445
- CAS Number:
8007-01-0
- EC Number:
290-260-3
- No CAS EINECS:
90106-38-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the preparation

Perfume ingredient

Cosmetic ingredient

Flavouring agent

* 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.



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.
 Skin Sens. 1 - H317 May cause an allergic skin reaction.



GHS08

Muta. 2 - H341 Suspected of causing genetic defects.
 Carc. 2 - H351 Suspected of causing cancer.



GHS09

Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

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

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GHS05 GHS07 GHS08 GHS09

- Signal word
Danger
- Hazard statements
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H315 Causes skin irritation.
H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P302+P352 IF ON SKIN: Wash with plenty of water.
P405 Store locked up.
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.

SECTION 03: Composition/information on ingredients

3.1 Chemical characterization: Substances








CAS No.	Description	%
* 8007-01-0	Rosa x damascena Miller	
	• Identification number(s)	
	• EC number: 290-260-3	
	• Dangerous components:	
* 106-22-9	dl-Citronellol EC number: 203-375-0 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	20,001-50,00
* 106-24-1	Geraniol EC number: 203-377-1 ⚠ Eye Dam. 1 - H318; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317	20,001-50,00
* 60-12-8	Phenethyl alcohol EC number: 200-456-2 ⚠ Acute Tox. 4 - H302, Eye Irrit. 2 - H319	5,001-10,00
* 93-15-2	methyl eugenol EC number: 202-223-0 ⚠ Acute Tox. 4 - H302; ⚠ Muta. 2 - H341, Carc. 2 - H351	1,001- 5,00
* 97-53-0	Eugenol EC number: 202-589-1	1,001- 5,00

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PRODUCT :	ROSE WATER CONCENTRATE	<i>(continued of page 2)</i>
*	 Eye Irrit. 2 - H319, Skin Sens. 1B - H317	
*	78-70-6	Linalool
*	EC number: 201-134-4	1,001- 5,00
*	 Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	
*	5392-40-5	Citral
*	EC number: 226-394-6	1,001- 5,00
*	 Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	
*	105-87-3	Geranyl acetate
*	EC number: 203-341-5	0,101-1,00
*	 Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Chronic 3 - H412	
*	4602-84-0	Farnesol
*	EC number: 225-004-1	0,101-1,00
*	 Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	
*	87-44-5	beta-Caryophyllene
*	EC number: 201-746-1	0,101-1,00
*	 Asp. Tox. 1 - H304;  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.
Immediately wash with water and soap and rinse thoroughly.
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:
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

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- 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:
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.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
- 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.

SECTION 07: Handling and storage

- Handling:
- 7.1 Precautions for safe handling
- * Keep receptacles tightly sealed.
 - * Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
 - * Open and handle receptacle with care.
 - * Prevent formation of aerosols.
 - * 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.
Prevent any seepage into the ground.
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.
- 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.

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CAS No.	Designation of material	%	Type	Value Unit
Not required.				
<ul style="list-style-type: none"> • Additional information: The lists valid during the making were used as basis. 				
8.2 Exposure controls				
<ul style="list-style-type: none"> • 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.				
<ul style="list-style-type: none"> • 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. 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 protection: Safety glasses 				

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	liquid to semi-crystallized
Colour:	pale yellow
Odour:	rose
Odour threshold:	Not determined.

Change in condition

Initial boiling point and boiling range: Not determined.

* **Flash point:** 71,0 °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 : 0,8750 0,8950 D20/20

Solubility in / Miscibility with

water: Not determined.

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

* **9.2 Other information** No further relevant information available.

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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
106-22-9 dl-Citronellol	
Oral, LD50: 3450 mg/kg (rat)	
Dermal, LD50: 2650 mg/kg (Rabbit)	
60-12-8 Phenethyl alcohol	
Oral, LD50: 2230 mg/kg (rat)	
Dermal, LD50: 790 mg/kg (Rabbit)	
93-15-2 methyl eugenol	
Oral, LD50: 810 mg/kg (rat) (Beroza and al., 1975)	
97-53-0 Eugenol	
Oral, LD50: 1930 mg/kg (rat)	
78-70-6 Linalool	
Oral, LD50: 2790 mg/kg (rat)	
Dermal, LD50: 5610 mg/kg (Rabbit)	
5392-40-5 Citral	
Oral, LD50: 4960 mg/kg (rat)	
105-87-3 Geranyl acetate	
Oral, LD50: >4000 mg/kg (rat) (NTP 1987)	
4602-84-0 Farnesol	
Oral, LD50: 20000 mg/kg (rat)	
Dermal, LD50: 15000 mg/kg (rat)	
87-44-5 beta-Caryophyllene	
Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)	
• Primary irritant effect:	
• Skin corrosion/irritation Irritant to skin and mucous membranes.	
• Serious eye damage/irritation Strong irritant with the danger of severe eye injury.	
• Respiratory or skin sensitisation Sensitization possible through skin contact.	
• Subacute to chronic toxicity:	
60-12-8 Phenethyl alcohol	
Oral, NOAEL: 120 mg/kg (rat) (56 weeks, Johannsen and al., 1969)	
78-70-6 Linalool	
Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)	
• Germ cell mutagenicity	

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- * **60-12-8 Phenethyl alcohol**
- * OECD 471 AMES: NEGATIVE (in vitro) (Florin and al., 1980)
- * **78-70-6 Linalool**
- * OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007)
- * **105-87-3 Geranyl acetate**
- * OECD 471 AMES: NEGATIVE (in vitro) (NTP 1987)
- * **87-44-5 beta-Caryophyllene**
- * OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)
- Carcinogenicity
- * **78-70-6 Linalool**
- * Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)
- * Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)
- * **105-87-3 Geranyl acetate**
- * Micronoyau: NEGATIVE (mouse) (in vivo, Shelby 1993)
- Reproductive toxicity
- Not determined.
- STOT-single exposure
- Not determined.
- STOT-repeated exposure
- Not determined.
- Aspiration hazard
- Not determined.

SECTION 12: Ecological information

- * 12.1 Toxicity
 - Aquatic toxicity:
 - * **93-15-2 methyl eugenol**
 - * CE50/48h: 38 mg/l (daphnia) (Ministry of the Environment of Japan 2018)
 - * ErC50(0-72h): 22 mg/l (algae) (Ministry of the Environment of Japan 2018)
 - * 96h-LC50: 14 mg/l (fish) (Ministry of the Environment of Japan 2018)
 - * **78-70-6 Linalool**
 - * LD50: 27,8 mg/l (fish) ((OECD 203) RIFM 1991)
 - * ErC50(0-72h): 156,7 mg/l (algae)
 - * ErC50(0-48h): 59 mg/l (daphnia) ((OECD 202)
- * 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.
 - Ecotoxicological effects:
 - Not determined.
 - Additional ecological information:
 - * General notes:
 - Toxic for aquatic organisms
 - The material is harmful to the environment.
- * 12.5 Results of PBT and vPvB assessment
 - PBT:
 - Not applicable.
 - vPvB:
 - Not applicable.
- * 12.6 Other adverse effects
 - No further relevant information available.

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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.

SECTION 14: Transport information
14.1 UN-Number
ADR UN3082

IMDG UN3082

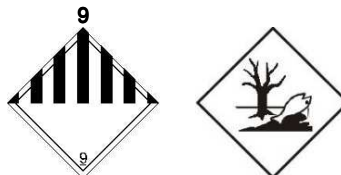
IATA UN3082

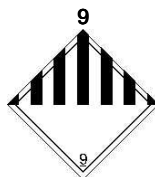
14.2 UN proper shipping name
ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (ROSA DAMASCENA EXTR.)

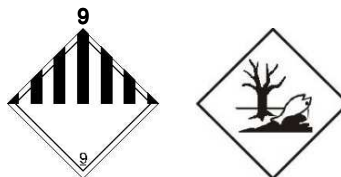
IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ROSA
 DAMASCENA EXTR.)

IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ROSA
 DAMASCENA EXTR.)

14.3 Transport hazard class(es)
ADR
Class 9 (M6) Miscellaneous dangerous substances and articles.

Label

IMDG
Class 9 Miscellaneous dangerous substances and articles.

Label

IATA
Class 9 Miscellaneous dangerous substances and articles.

Label

14.4 Packing group
ADR III

IMDG III

IATA III

14.5 Environmental hazards:
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Not applicable.

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Danger code (Kemler): 90

EMS Number: F-A,S-F

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

- Transport/Additional information:
Not applicable.

Excepted quantities (EQ): E1

Limited quantities (LQ) 5L

Transport category 3

Tunnel restriction code E

- UN "Model Regulation":
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ROSA DAMASCENA EXTR.), 9, III

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- 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.
- * H304 May be fatal if swallowed and enters airways.
- * H315 Causes skin irritation.
- * H317 May cause an allergic skin reaction.
- * H318 Causes serious eye damage.
- * H319 Causes serious eye irritation.
- * H341 Suspected of causing genetic defects.
- * H351 Suspected of causing cancer.
- * 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)

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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.