

CHEMICAL SAFETY DATA SHEET
according to 2020/878/EC (1907/2006/EC Article 31)

2825400

Reviewed on: 18.10.2023
Printing date: 18.10.2023

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

1.1 Product identifier

- Trade name:
EUCALYPTUS RADIATA SAF OIL
- Article number:
406
- CAS Number:
8000-48-4
- EC Number:
295-995-3
- No CAS EINECS:
92201-64-4
- Registration number
01-2120942236-56-0000

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

Application of the substance / the preparation

Perfume ingredient

Cosmetic ingredient

Only for industrial use

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GOLGEMMA

TEL: +33(0)4.68.74.17.89

Route de FA

email: fds@golgemma.com

11260 ESPERAZA

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

Skin Corr. 1C - H314 Causes severe skin burns and eye damage.



GHS08

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

Skin Sens. 1 - H317 May cause an allergic skin reaction.

Aquatic Chronic 3 - H412 Harmful 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 GHS08 GHS02 GHS07

- Signal word
Danger
- Hazard statements
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take action to prevent static discharges.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to ...

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
8000-48-4	Eucalyptus radiata Sieber ex DC. (Syn : Eucalyptus australiana R.T.Baker & H.G.Sm.)

- Identification number(s)
- EC number:
295-995-3

• Dangerous components:

CAS Number		%
470-82-6	Eucalyptol EC number: 207-431-5 ⚠ Flam. Liq. 3 - H226; ⚠ Skin Sens. 1B - H317	50,001-100
5989-27-5	d-limonene EC number: 227-813-5 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317; ⚠ Aquatic Acute 1 - H400 (M=1); Aquatic Chronic 3 - H412	10,001-20,00
98-55-5	p-menth-1-en-8-ol EC number: 202-680-6 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	10,001-20,00
8007-35-0	Terpinyl acetate (Isomer mixture) EC number: 232-357-5 ⚠ Aquatic Chronic 2 - H411	1,001- 5,000
80-56-8	ALPHA-PINENE	1,001- 5,000

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	EC number: 201-291-9	
	☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
	- H226; ⚠ Acute Tox. 4 - H302, Skin	
	Irrit. 2 - H315, Skin Sens. 1B - H317	
123-35-3	Myrcene	1,001- 5,000
	EC number: 204-622-5	
	☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
	- H226; ⚠ Skin Irrit. 2 - H315, Eye	
	Irrit. 2 - H319	
562-74-3	4-Carvomenthenol	1,001- 5,000
	EC number: 209-235-5	
	⚠ Acute Tox. 4 - H302, Skin Irrit. 2 -	
	H315, Eye Irrit. 2 - H319	
3387-41-5	sabinene	1,001- 5,000
	EC number: 222-212-4	
	⚠ Acute Tox. 4 - H302	
127-91-3	BETA-PINENE	1,001- 5,000
	EC number: 204-872-5	
	☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
	- H226; ⚠ Skin Irrit. 2 - H315, Skin	
	Sens. 1B - H317	
99-85-4	p-Mentha-1,4-diene	1,001- 5,000
	EC number: 202-794-6	
	☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
	- H226	
87-44-5	BETA-CARYOPHYLLENE	1,001- 5,000
	EC number: 201-746-1	
	☠ Asp. Tox. 1 - H304; ⚠ Skin Sens.	
	1B - H317	
5392-40-5	CITRAL	1,001- 5,000
	EC number: 226-394-6	
	⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319, Skin Sens. 1B - H317	
106-24-1	GERANIOL	1,001- 5,000
	EC number: 203-377-1	
	☠ Eye Dam. 1 - H318; ⚠ Skin Irrit. 2	
	- H315, Skin Sens. 1 - H317	
99-87-6	p-cymene	1,001- 5,000
	EC number: 202-796-7	
	☠ Acute Tox. 3 - H331; ☠ Asp. Tox. 1	
	- H304; ☠ Flam. Liq. 3 - H226; ☠	
	Aquatic Chronic 2 - H411	
99-83-2	Alpha phellandrene	1,001- 5,000
	EC number: 202-792-5	
	☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
	- H226	
586-62-9	TERPINOLENE	0,101-1,000
	EC number: 209-578-0	
	☠ Asp. Tox. 1 - H304; ⚠ Skin Sens.	

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78-70-6	<p>1B - H317;  Aquatic Acute 1 - H400 (M=1), Aquatic Chronic 1 - H410 (M=1)</p> <p>LINALOOL</p> <p>EC number: 201-134-4</p> <p> Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317</p>	0,101-1,000
13877-91-3	<p>3,7-Dimethyl-1,3,6-octatriene</p> <p>EC number: 237-641-2</p> <p> Asp. Tox. 1 - H304;  Flam. Liq. 3 - H226;  Skin Irrit. 2 - H315</p>	0,101-1,000
99-86-5	<p>1-isopropyl-4-methylcyclohexa-1,3-diene</p> <p>EC number: 202-795-1</p> <p> Asp. Tox. 1 - H304;  Flam. Liq. 3 - H226;  Acute Tox. 4 - H302, Skin Sens. 1 - H317;  Aquatic Chronic 2 - H411</p>	0,101-1,000
590-86-3	<p>3-Methylbutyraldehyde</p> <p>EC number: 209-691-5</p> <p> Flam. Liq. 2 - H225;  Eye Irrit. 2 - H319, Skin Sens. 1B - H317, STOT SE 3 - H335;  Aquatic Chronic 2 - H411</p>	0,101-1,000
106-25-2	<p>Nerol</p> <p>EC number: 203-378-7</p> <p> Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317</p>	0,101-1,000

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

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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:
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.
Inform respective authorities in case of seepage into water course or sewage system.

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**7.1 Precautions for safe handling**

Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
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.
- 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.

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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.
Do not inhale gases / fumes / aerosols.
Do not inhale dust / smoke / mist.
Avoid contact with the skin.
- Respiratory protection:
Use suitable respiratory protective device in case of insufficient ventilation.
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.
- 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
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	Fluid
Colour:	colourless to pale yellow
Odour:	minty
Odour threshold:	Not determined.
Melting point/freezing point:	< -20,0 °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:	57,5 °C NFT 60-103 CC
Ignition temperature:	290,00 °C
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.

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Dynamic:	Not determined.
Solubility	
water:	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	at 24,00 °C 2,2700 mbar
Density and/or relative density	
Density:	Not determined.
Relative density	0,9050 0,925 D20/20
Vapour density	Not determined.
9.2 Other information	No further relevant information available.
Appearance:	
Form:	fluid
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 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	not applicable
Flammable gases	not applicable
Aerosols	not applicable
Oxidising gases	not applicable
Gases under pressure	not applicable
Flammable liquids	Flammable liquid and vapour.
Flammable solids	not applicable
Self-reactive substances and mixtures	not applicable
Pyrophoric liquids	not applicable
Pyrophoric solids	not applicable
Self-heating substances and mixtures	not applicable
Substances and mixtures, which emit flammable gases in contact with water	not applicable
Oxidising liquids	not applicable
Oxidising solids	not applicable
Organic peroxides	not applicable
Corrosive to metals	not applicable
Desensitised explosives	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.

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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

- | | | |
|------------------|---|--|
| 470-82-6 | Eucalyptol | |
| | Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014) | |
| 5989-27-5 | (R)-p-mentha-1,8-diene | |
| | Oral, LD50: 4400 mg/kg (rat) | |
| 98-55-5 | p-menth-1-en-8-ol | |
| | Oral, LD50: 4300 mg/kg (rat) | |
| 87-44-5 | BETA-CARYOPHYLLENE | |
| | Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971) | |
| 5392-40-5 | CITRAL | |
| | Oral, LD50: 4960 mg/kg (rat) | |
| 99-83-2 | Alpha phellandrene | |
| | Oral, LD50: > 5700 mg/kg (rat) (Moreno 1972) | |
| 78-70-6 | LINALOOL | |
| | Oral, LD50: 2790 mg/kg (rat) | |
| | Dermal, LD50: 5610 mg/kg (Rabbit) | |
| 99-86-5 | ALPHA-TERPINENE | |
| | Oral, LD50: 1680 mg/kg (ATE) | |
| 590-86-3 | 3-Methylbutyraldehyde | |
| | Oral, LD50: 5600 mg/kg (rat) | |
| | Dermal, LD50: 3180 mg/kg (Rabbit) | |
- Primary irritant effect:
 - Skin corrosion/irritation
Causes severe skin burns and eye damage.
 - Serious eye damage/irritation
No irritating effect.
 - Respiratory or skin sensitisation
Sensitization possible through skin contact.
 - Germ cell mutagenicity
- | | | |
|-----------------|--|--|
| 470-82-6 | Eucalyptol | |
| | OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983) | |
| 87-44-5 | BETA-CARYOPHYLLENE | |
| | OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989) | |
| 78-70-6 | LINALOOL | |
| | OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007) | |
- Carcinogenicity
- | | | |
|----------------|---|--|
| 78-70-6 | LINALOOL | |
| | Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007) | |
| | Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011) | |
- Reproductive toxicity
Not determined.
 - STOT-single exposure
Not determined.
 - STOT-repeated exposure
Not determined.
 - Aspiration hazard
May be fatal if swallowed and enters airways.
May be fatal if swallowed and enters airways.
 - Subacute to chronic toxicity:
- | | | |
|----------------|--|--|
| 87-44-5 | BETA-CARYOPHYLLENE | |
| | Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016) | |
| 78-70-6 | LINALOOL | |
| | Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008) | |
- 11.2 Information on other hazards
 - Endocrine disrupting properties

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Substance is not listed.

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SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity:

5989-27-5 (R)-p-mentha-1,8-diene
LD50: 0,71 mg/l (fish) (OECD 203)

123-35-3 Myrcene
LD50: 0,51 mg/l (fish) (OECD 203)
CE50/48h: 0,65 mg/l (daphnia)

99-87-6 p-cymene
LD50: 1,63 mg/l (fish) (OECD 203)

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.

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.
- Remark:
Harmful to fish
- Additional ecological information:
- General notes:
Harmful to aquatic organisms
The material is harmful to the environment.

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 or ID number

- . **ADR** UN1197
- . **IMDG** UN1197
- . **IATA** UN1197

14.2 UN proper shipping name

- . **ADR** 1197 EXTRACTS, LIQUID
- . **IMDG** EXTRACTS, LIQUID
- . **IATA** EXTRACTS, LIQUID

14.3 Transport hazard class(es)

- . **ADR**
- . **Class** 3 (F1) Flammable liquids.
- . **Label**



- . **IMDG**
- . **Class** 3 Flammable liquids.
- . **Label**



- . **IATA**
- . **Class** 3 Flammable liquids.
- . **Label**



14.4 Packing group

- . **ADR** III
- . **IMDG** III
- . **IATA** III

14.5 Environmental hazards:

- . **Marine pollutant:** Yes

14.6 Special precautions for user

- Warning: Flammable liquids.
- . **Danger code (Kemler):** 30
 - . **EMS Number:** F-E,S-D

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

• Transport/Additional information:

- . **ADR**
- . **Excepted quantities (EQ):** E1
- . **Limited quantities (LQ)** 5L
- . **Transport category** 3
- . **Tunnel restriction code** D/E

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- UN "Model Regulation":
UN 1197 EXTRACTS, LIQUID, 3, III

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:
Generally not 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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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

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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.