

2666701

Reviewed on: 25.01.2023
Printing date: 25.01.2023**SECTION 01: Identification of the substance/mixture and of the company/undertaking**

1.1 Product identifier

- Trade name:
TEA TREE SAF ORGANIC OIL GMP
- Article number:
B891P
- CAS Number:
68647-73-4
- EC Number:
285-377-1
- No CAS EINECS:
85085-48-9
- Registration number
01-2120743651-57-0014

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:

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



GHS08

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



GHS02

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



GHS07

Acute Tox. 4 - H302 Harmful if swallowed.
Acute Tox. 4 - H332 Harmful if inhaled.
Skin Irrit. 2 - H315 Causes skin irritation.

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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GHS08 GHS02 GHS07 GHS09

- Signal word
Danger
- * - Hazard statements
 - * H226 Flammable liquid and vapour.
 - * H302+H332 Harmful if swallowed or if inhaled.
 - * H304 May be fatal if swallowed and enters airways.
 - * H315 Causes skin irritation.
 - * H411 Toxic 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.
 - P233 Keep container tightly closed.
 - P240 Ground and bond container and receiving equipment.
 - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 - P403+P235 Store in a well-ventilated place. Keep cool.
 - 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.
 - Determination of endocrine-disrupting properties
 - * Substance is not listed.

SECTION 03: Composition/information on ingredients

3.1 Substances

CAS No. **Description**
68647-73-4 Melaleuca alternifolia (Maiden & Betche) Cheel
(Syn : Melaleuca linariifolia var. alternifolia
Maiden & Betche)

- Identification number(s)
- EC number:
285-377-1

- Dangerous components:

CAS Number		%
562-74-3	4-Carvomenthenol EC number: 209-235-5 Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	20,001-50,00
99-85-4	p-Mentha-1,4-diene EC number: 202-794-6 Asp. Tox. 1 - H304; Flam. Liq. 3 - H226	20,001-50,00
470-82-6	Eucalyptol EC number: 207-431-5 Flam. Liq. 3 - H226; Skin Sens. 1B - H317	10,001-20,00
* 99-86-5	1-isopropyl-4-methylcyclohexa-1,3-diene EC number: 202-795-1 Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Acute Tox. 4 - H302, Skin Sens. 1 - H317; Aquatic Chronic 2 -	10,001-20,00

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*		H411	
*		Oral: ATE = 1680 mg/kg	
*	99-87-6	p-cymene	10,001-20,00
*		EC number: 202-796-7	
*		☠ Acute Tox. 3 - H331; ☠ Asp. Tox. 1	
*		- H304; ☠ Flam. Liq. 3 - H226; ☠	
*		Aquatic Chronic 2 - H411	
*	98-55-5	p-menth-1-en-8-ol	5,001-10,00
*		EC number: 202-680-6	
*		⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*		H319	
*	80-56-8	pin-2(3)-ene	5,001-10,00
*		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	
*	586-62-9	Terpinolene	1,001- 5,00
*		EC number: 209-578-0	
*		☠ Asp. Tox. 1 - H304; ⚠ Skin Sens.	
*		1B - H317; ☠ Aquatic Acute 1 - H400,	
*		Aquatic Chronic 1 - H410	
*	5989-27-5	d-limonene	1,001- 5,00
*		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; Aquatic Chronic 3 - H412	
*	3387-41-5	sabinene	1,001- 5,00
*		EC number: 222-212-4	
*		⚠ Acute Tox. 4 - H302	
*	123-35-3	Myrcene	1,001- 5,00
*		EC number: 204-622-5	
*		☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
*		- H226; ⚠ Skin Irrit. 2 - H315, Eye	
*		Irrit. 2 - H319	
*	127-91-3	beta-Pinene	1,001- 5,00
*		EC number: 204-872-5	
*		☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
*		- H226; ⚠ Skin Irrit. 2 - H315, Skin	
*		Sens. 1B - H317	
*	555-10-2	beta-Phellandrene	1,001- 5,00
*		EC number: 209-081-9	
*		☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
*		- H226	
*	87-44-5	beta-Caryophyllene	1,001- 5,00
*		EC number: 201-746-1	
*		☠ Asp. Tox. 1 - H304; ⚠ Skin Sens.	
*		1B - H317	
*	99-83-2	Alpha phellandrene	1,001- 5,00

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*		EC number: 202-792-5	
*		☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
*		- H226	
*	78-70-6	Linalool	0,101-1,00
*		EC number: 201-134-4	
*		⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*		H319, Skin Sens. 1B - H317	

SECTION 04: First aid measures

4.1 Description of first aid measures

- General information:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Seek immediate medical advice.
- * • After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- * • 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:
Call for a doctor immediately.
- 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

- 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

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.

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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.
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.

*** 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.
Avoid contact with the skin.
- 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

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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/face protection
Safety glasses

* **SECTION 09: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

General Information

* Physical state	Fluid
Colour:	colourless to light yellow
Odour:	characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	-22,0 °C
Boiling point or initial boiling point and boiling range	97,00 - 220,00 °C
Flammability	Not determined.
Lower and upper explosion limit	
* Lower:	Not determined.
* Upper:	Not determined.
Flash point:	54,0 °C NFT 60-103 CC
* Decomposition temperature:	Not determined.
* pH	Not determined.
Viscosity:	
* Kinematic viscosity	Not determined.
* Dynamic:	Not determined.
Solubility	
water:	at 20,00 °C 1,42 g/l
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	at 25,00 °C 21,0000 mbar
Density and/or relative density	
Density:	Not determined.
* Relative density	0,8850 0,906
* 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

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*	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.

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

Harmful if swallowed.

LD/LC50 values relevant for classification:

ISO LD/LC

68647-73-4 Melaleuca alternifolia (Maiden & Betche) Cheel
(Syn : Melaleuca linariifolia var. alternifolia
Maiden & Betche)

Oral, LD50: 1625 mg/kg (rat) (Litchfield and Wilcoxon (1949))
Dermal, LD50: > 2000 mg/kg (Rabbit) (OECD Guideline 402)
Inhalative, LC50/4h: 4,78 mg/l (rat) (OECD Guideline 403)

470-82-6 Eucalyptol
Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)

99-86-5 p-mentha-1,3-diene
Oral, LD50: 1680 mg/kg (ATE)

98-55-5 p-menth-1-en-8-ol
Oral, LD50: 4300 mg/kg (rat)

5989-27-5 (R)-p-mentha-1,8-diene
Oral, LD50: 4400 mg/kg (rat)

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

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)
• Primary irritant effect:

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- Skin corrosion/irritation
68647-73-4 Melaleuca alternifolia (Maiden & Betche) Cheel
(Syn : Melaleuca linariifolia var. alternifolia Maiden & Betche)
Irritation of skin, OECD 404 DRAIZE: IRRITANT (Rabbit) (Study report - 1989)
Irritant to skin and mucous membranes.
Causes skin irritation.
- * - Serious eye damage/irritation
68647-73-4 Melaleuca alternifolia (Maiden & Betche) Cheel
(Syn : Melaleuca linariifolia var. alternifolia Maiden & Betche)
Irritation of eyes, OECD 405 DRAIZE: NOT CLASSIFIED (Rabbit) (OECD Guideline 405 - 2013)
- * • Respiratory or skin sensitisation
68647-73-4 Melaleuca alternifolia (Maiden & Betche) Cheel
(Syn : Melaleuca linariifolia var. alternifolia Maiden & Betche)
Dermal, OECD 429 LLNA: NON SENSITIZER (guinea Pig) (Magnusson & Kligmann method (non LLNA))
- Germ cell mutagenicity
68647-73-4 Melaleuca alternifolia (Maiden & Betche) Cheel
(Syn : Melaleuca linariifolia var. alternifolia Maiden & Betche)
OECD 471 AMES: NEGATIVE (in vitro) (OECD Guideline 473)
- 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
Substance is not listed.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:
68647-73-4 Melaleuca alternifolia (Maiden & Betche) Cheel
(Syn : Melaleuca linariifolia var. alternifolia Maiden & Betche)
CE50/48h: 13,6 mg/l (daphnia) (OECD Guideline 202)

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- * ErC50(0-72h): 35,9 mg/l (algae) (OECD 201)
- * LL50: 7,75 mg/l (fish) (OECD Guideline 203)
- * **99-87-6 p-cymene**
- * LD50: 1,63 mg/l (fish) (OECD 203)
- * **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)
- * **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:
Toxic for fish
- * • Additional ecological information:
- General notes:
Toxic for aquatic organisms
Danger to drinking water if even extremely small quantities leak into the ground.
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.

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

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* **IATA** EXTRACTS, LIQUID

14.3 Transport hazard class(es)

ADR

Class 3 (F1) Flammable liquids.

Label

3



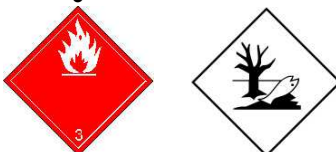
IMDG

Class

3 Flammable liquids.

Label

3



IATA

Class

3 Flammable liquids.

Label

3



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:
Not applicable.

ADR

Excepted quantities (EQ): E1

Limited quantities (LQ) 5L

Transport category 3

Tunnel restriction code D/E

- UN "Model Regulation":

* UN 1197 EXTRACTS, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS

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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:
 Water hazard class 3 (Self-assessment): extremely 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

- | | | |
|---|------|---|
| | 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. |
| | H319 | Causes serious eye irritation. |
| * | H331 | Toxic if inhaled. |
| * | 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 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) 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) 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 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation DOT: US Department of Transportation
 IATA: International Air Transport Association IATA: International Air Transport Association
 ICAO: International Civil Aviation Organisation ICAO: International Civil Aviation Organisation

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PRODUCT : TEA TREE SAF ORGANIC OIL GMP*(continued of page 11)*

GHS: Globally Harmonised System of Classification and Labelling of Chemicals
Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
vPvB: very Persistent and very Bioaccumulative
CE50: effective concentration at 50%
ErC50: concentration of test substance which results in a 50 percent reduction in either growth rate (ErC50) relative to the control within 72hrs exposure.

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

- * Data compared to the previous version altered.