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**PRODUCT : CINNAMON leaf ORGANIC OIL**

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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
8015-91-6	Cinnamomum verum J.Presl (Syn : Cinnamomum zeylanicum Blume)

- Identification number(s)
- EC number:  
283-479-0

- Dangerous components:

CAS Number		%
* <b>97-53-0</b>	<b>EUGENOL</b> EC number: 202-589-1 ⚠ Eye Irrit. 2 - H319, Skin Sens. 1B - H317	<b>50,001-100</b>
* <b>93-28-7</b>	<b>EUGENYL ACETATE</b> ⚠ Acute Tox. 4 - H302	<b>5,001-10,00</b>
* <b>87-44-5</b>	<b>BETA-CARYOPHYLLENE</b> EC number: 201-746-1 ⚠ Asp. Tox. 1 - H304; ⚠ Skin Sens. 1B - H317	<b>1,001- 5,000</b>
* <b>120-51-4</b>	<b>BENZYL BENZOATE</b> EC number: 204-402-9 ⚠ Acute Tox. 4 - H302; ⚠ Aquatic Acute 1 - H400 (M=1), Aquatic Chronic 2 - H411	<b>1,001- 5,000</b>
* <b>104-55-2</b>	<b>CINNAMAL</b> EC number: 203-213-9 ⚠ Acute Tox. 4 - H312, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1A - H317	<b>1,001- 5,000</b>
* <b>94-59-7</b>	<b>5-allyl-1,3-benzodioxole</b> EC number: 202-345-4 ⚠ Muta. 2 - H341, Carc. 1B - H350; ⚠ Acute Tox. 4 - H302	<b>1,001- 5,000</b>
* <b>78-70-6</b>	<b>LINALOOL</b> EC number: 201-134-4 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	<b>1,001- 5,000</b>
* <b>80-56-8</b>	<b>ALPHA-PINENE</b> 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	<b>1,001- 5,000</b>

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*	<b>99-83-2</b>	<b>Alpha phellandrene</b>	<b>1,001- 5,000</b>
*		EC number: 202-792-5	
*		☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
*		- H226	
*	<b>99-87-6</b>	<b>p-cymene</b>	<b>1,001- 5,000</b>
*		EC number: 202-796-7	
*		☠ Acute Tox. 3 - H331; ☠ Asp. Tox. 1	
*		- H304; ☠ Flam. Liq. 3 - H226; ☠	
*		Aquatic Chronic 2 - H411	
*	<b>79-92-5</b>	<b>camphene</b>	<b>0,101-1,000</b>
*		EC number: 201-234-8	
*		☠ Flam. Sol. 1 - H228; ☠ Eye Irrit.	
*		2 - H319; ☠ Aquatic Acute 1 - H400 (M=1)	
*		, Aquatic Chronic 1 - H410 (M=1)	
*	<b>5989-27-5</b>	<b>d-limonene</b>	<b>0,101-1,000</b>
*		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	
*	<b>127-91-3</b>	<b>BETA-PINENE</b>	<b>0,101-1,000</b>
*		EC number: 204-872-5	
*		☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
*		- H226; ☠ Skin Irrit. 2 - H315, Skin	
*		Sens. 1B - H317	
*	<b>470-82-6</b>	<b>Eucalyptol</b>	<b>0,101-1,000</b>
*		EC number: 207-431-5	
*		☠ Flam. Liq. 3 - H226; ☠ Skin Sens.	
*		1B - H317	
*	<b>99-86-5</b>	<b>1-isopropyl-4-methylcyclohexa-1,3-diene</b>	<b>0,101-1,000</b>
*		EC number: 202-795-1	
*		☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3	
*		- H226; ☠ Acute Tox. 4 - H302, Skin	
*		Sens. 1 - H317; ☠ Aquatic Chronic 2 -	
*		H411	
*	<b>562-74-3</b>	<b>p-Menth-1-en-4-ol</b>	<b>0,101-1,000</b>
*		EC number: 209-235-5	
*		☠ Acute Tox. 4 - H302, Acute Tox. 4 -	
*		H332, Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*		H319, Skin Sens. 1B - H317, STOT SE 3 - H336	
*	<b>97-54-1</b>	<b>ISOEUGENOL</b>	<b>0,001-0,010</b>
*		EC number: 202-590-7	
*		☠ Acute Tox. 4 - H302, Acute Tox. 4 -	
*		H312, Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*		H319, Skin Sens. 1A - H317;	
*		Skin Sens. 1A; H317: C >= 0,01 %	

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**CHEMICAL SAFETY DATA SHEET**  
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**PRODUCT : CINNAMON leaf ORGANIC OIL***(continued of page 3)***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:  
CO<sub>2</sub>, 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:  
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:

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.

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### 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.  
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.  
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.  
Store protective clothing separately.  
Do not inhale gases / fumes / aerosols.  
Do not inhale dust / smoke / mist.  
Avoid contact with the eyes.
- Respiratory protection:  
Use suitable respiratory protective device in case of insufficient ventilation.  
\* Filter P3  
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.  
Suitable respiratory protective device recommended.
- 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

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- \* • Body protection:
- \* Impervious protective clothing
- \* Boots

### SECTION 09: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

<b>Physical state</b>	Fluid
<b>Colour:</b>	pale yellow to brown-yellow
<b>Odour:</b>	spicy
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	0,0 °C
<b>Boiling point or initial boiling point and boiling range</b>	0,0 °C
<b>Flammability</b>	Not determined.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Flash point:</b>	94,0 °C    NFT 60-103 CC
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	Not determined.
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined.
<b>Dynamic:</b>	Not determined.
<b>Solubility</b>	
<b>water:</b>	Not determined.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density</b>	
<b>Density:</b>	Not determined.
<b>Relative density</b>	1,0300 1,059 (D20/20)
<b>Vapour density</b>	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** not applicable

**Flammable solids** not applicable

**Self-reactive substances and mixtures** not applicable

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<b>Pyrophoric liquids</b>	not applicable
<b>Pyrophoric solids</b>	not applicable
<b>Self-heating substances and mixtures</b>	not applicable
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	not applicable
<b>Oxidising liquids</b>	not applicable
<b>Oxidising solids</b>	not applicable
<b>Organic peroxides</b>	not applicable
<b>Corrosive to metals</b>	not applicable
<b>Desensitised explosives</b>	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
- LD/LC50 values relevant for classification:

ISO LD/LC

**8015-91-6 Cinnamomum verum J.Presl (Syn : Cinnamomum zeylanicum Blume)**

Oral, LD50: 2700 mg/kg (rat)  
Dermal, LD50: >=5000 mg/kg (Rabbit)

**\* 97-53-0 EUGENOL**

Oral, LD50: 1930 mg/kg (rat)

**\* 87-44-5 BETA-CARYOPHYLLENE**

Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)

**\* 120-51-4 BENZYL BENZOATE**

Oral, LD50: 1700 mg/kg (rat)  
Oral, LD50: 3450 mg/kg (mouse) (Bier, 1979)  
Dermal, LD50: 4000 mg/kg (Rabbit)

**\* 104-55-2 CINNAMAL**

Oral, LD50: 2220 mg/kg (rat)

**\* 94-59-7 safrole**

Oral, LD50: 1950 mg/kg (rat)  
Dermal, LD50: >5000 mg/kg (Rabbit)

**\* 78-70-6 LINALOOL**

Oral, LD50: 2790 mg/kg (rat)  
Dermal, LD50: 5610 mg/kg (Rabbit)

**\* 99-83-2 Alpha phellandrene**

Oral, LD50: > 5700 mg/kg (rat) (Moreno 1972)

**\* 79-92-5 camphene**

Oral, LD50: 5000 mg/kg (rat)

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- \* Dermal, LD50: 2500 mg/kg (Rabbit)
- \* **5989-27-5 (R)-p-mentha-1,8-diene**
- \* Oral, LD50: 4400 mg/kg (rat)
- \* **470-82-6 Eucalyptol**
- \* Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)
- \* **99-86-5 ALPHA-TERPINENE**
- \* Oral, LD50: 1680 mg/kg (ATE)
- \* **97-54-1 ISOEUGENOL**
- \* Oral, LD50: 1560 mg/kg (rat)
- \*
  - Primary irritant effect:
  - Skin corrosion/irritation  
No irritant effect.
  - Serious eye damage/irritation  
Irritating effect.  
Causes serious eye irritation.
  - Respiratory or skin sensitisation
- \* **120-51-4 BENZYL BENZOATE**
- \* Sensitisation, NESIL: 59000 ug/cm<sup>2</sup> (human being) (Standard IFRA)
- \* **104-55-2 CINNAMAL**
- \* Dermal, OECD 429 LLNA: SENSITIZER (mouse) (EC3 1,1%, RIFM 2004)
- \* Sensitization possible through skin contact.
- \*
  - Germ cell mutagenicity
- \* **87-44-5 BETA-CARYOPHYLLENE**
- \* OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)
- \* **120-51-4 BENZYL BENZOATE**
- \* OECD 471 AMES: NEGATIVE (in vitro) (Schunk and al., 1986)
- \* **104-55-2 CINNAMAL**
- \* OECD 471 AMES: NEGATIVE (in vitro) (NTP 2004)
- \* **78-70-6 LINALOOL**
- \* OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007)
- \* **470-82-6 Eucalyptol**
- \* OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)
- \* Suspected of causing genetic defects.
- \*
  - Carcinogenicity
- \* **104-55-2 CINNAMAL**
- \* Micronoyau: NEGATIVE (mouse) (NTP 2004)
- \* **78-70-6 LINALOOL**
- \* Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)
- \* Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)
- \* May cause cancer.
- \*
  - Reproductive toxicity  
Not determined.
  - STOT-single exposure  
Not determined.
  - STOT-repeated exposure  
Not determined.
  - Aspiration hazard  
Not determined.
  - Subacute to chronic toxicity:
- \* **87-44-5 BETA-CARYOPHYLLENE**
- \* Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)
- \* **104-55-2 CINNAMAL**
- \* Oral, NOAEL: 100 mg/kg (rat) (2 years, RIFM 2019)
- \* **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
- \* None of the ingredients is listed.

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### SECTION 12: Ecological information

- 12.1 Toxicity
- \* • Aquatic toxicity:
  - \* 104-55-2 CINNAMAL
  - \* ErC50(0-48h): 3,86 mg/l (daphnia) (RIFM 2003)
  - \* 96h-LC50: 4,15 mg/l (fish) (RIFM 1993)
  - \* 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)
  - \* 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)
- 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.
  - 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:
  - 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

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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
- \* 94-59-7 safrole : 1
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
- \* 94-59-7 safrole : 1
- National regulations:
- Additional classification according to Decree on Hazardous Materials, Annex II:  
Carcinogenic hazardous material group I (extremely dangerous).  
Carcinogenic hazardous material group II (very dangerous).  
Carcinogenic hazardous material group III (dangerous).
- Information about limitation of use:  
Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.
- Technical instructions (air):
- Class Share in %
- \* I 2,75
- Waterhazard class:  
Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment:  
A Chemical Safety Assessment has not been carried out.

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### 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.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
* H332	Harmful if inhaled.
* H336	May cause drowsiness or dizziness.
* H341	Suspected of causing genetic defects.
* H350	May cause cancer.
* 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  
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.