

**PETITGRAIN OIL PARAGUAY****SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

CAS TSCA: 8016-44-2  
CAS EINECS: 72968-50-4  
EINECS: 277-143-2 / 946-433-7  
Product name: PETITGRAIN OIL PARAGUAY

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

Aromatic Raw Material - Professional and industrial use.

**Use descriptor system (REACH) :**

REACH registration number: 01-2120748358-44-0025

**1.3. Details of the supplier of the safety data sheet**

Registered company name : Floral Concept.  
Address : Parc d'Activité des Hauts de Grasse - 60, Allée des Arômes.06530.Saint Cezaire sur Siagne.France.  
Telephone : 33 (0)4 93 66 66 00. Fax : 33 (0)4 93 40 45 00.  
contact@floral-concept.com  
http://www.floral-concept.com

**1.4. Emergency telephone number : +33 (0)1 45 52 59 59.**

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

**Other emergency numbers**

<http://echa.europa.eu/fr/support/helpdesks/national-helpdesks/list-of-national-helpdesks>

**SECTION 2 : HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****In compliance with EC regulation No. 1272/2008 and its amendments.**

Skin irritation, Category 2 (Skin Irrit. 2, H315).  
Eye irritation, Category 2 (Eye Irrit. 2, H319).  
Skin sensitisation, Category 1 (Skin Sens. 1, H317).  
Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).  
This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

**2.2. Label elements****In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS07

Signal Word :

WARNING

Product identifiers (list of classified components) :

EC 204-116-4	LINALYL ACETATE
EC 201-134-4	LINALOOL
EC 203-341-5	GERANYL ACETATE

**PETITGRAIN OIL PARAGUAY**

EC 203-377-1	GERANIOL
EC 205-459-2	NERYL ACETATE
EC 203-378-7	NEROL
EC 204-872-5	BETA-PINENE
EC 227-813-5	D-LIMONENE
EC 201-746-1	BETA-CARYOPHYLLENE
EC 236-719-3	DELTA-3-CARENE
EC 209-578-0	TERPINOLENE
EC 226-394-6	CITRAL
EC 201-291-9	ALPHA-PINENE
EC 209-235-5	TERPINEN-4-OL

Hazard statements :

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

Precautionary statements - Response :

P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	IF skin irritation or rash occurs: Get medical advice/attention.

**2.3. Other hazards**

The substance does not fulfil the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

**Composition :**

Identification	Classification (EC) 1272/2008	Note	%
CAS: 115-95-7 EC: 204-116-4  LINALYL ACETATE	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319		46.7000%
CAS: 78-70-6 EC: 201-134-4  LINALOOL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319		27.3700%
CAS: 98-55-5 EC: 202-680-6  ALPHA-TERPINEOL	GHS07 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319		4.9500%
CAS: 105-87-3 EC: 203-341-5  GERANYL ACETATE	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412		3.8100%

**PETITGRAIN OIL PARAGUAY**

CAS: 13877-91-3 EC: 237-641-2  3,7-DIMETHYL-1,3,6-OCTATRIENE	GHS02, GHS07, GHS08, GHS09 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1		3.3000%
CAS: 106-24-1 EC: 203-377-1  GERANIOL	GHS05, GHS07 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318		2.9200%
CAS: 141-12-8 EC: 205-459-2  NERYL ACETATE	GHS07 Wng Skin Sens. 1B, H317		2.2200%
CAS: 123-35-3 EC: 204-622-5  MYRCENE	GHS02, GHS07, GHS08, GHS09 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1		2.1600%
CAS: 106-25-2 EC: 203-378-7  NEROL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319		1.2000%
CAS: 127-91-3 EC: 204-872-5  BETA-PINENE	GHS02, GHS07, GHS08, GHS09 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		1.1200%
CAS: 5989-27-5 EC: 227-813-5  D-LIMONENE	GHS02, GHS07, GHS08, GHS09 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Aquatic Acute 1, H400 M Acute = 1	[1]	0.9600%
CAS: 87-44-5 EC: 201-746-1  BETA-CARYOPHYLLENE	GHS07, GHS08 Dgr Asp. Tox. 1, H304 Skin Sens. 1B, H317		0.6800%
CAS: 13466-78-9 EC: 236-719-3  DELTA-3-CARENE	GHS02, GHS07, GHS08, GHS09 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Acute Tox. 4, H332 Aquatic Chronic 2, H411		0.6400%

**PETITGRAIN OIL PARAGUAY**

CAS: 586-62-9 EC: 209-578-0  TERPINOLENE	GHS07, GHS08, GHS09 Dgr Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0.4800%
CAS: 5392-40-5 EC: 226-394-6  CITRAL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319		0.2700%
CAS: 80-56-8 EC: 201-291-9  ALPHA-PINENE	GHS02, GHS07, GHS08, GHS09 Dgr Flam. Liq. 3, H226 Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0.1100%
CAS: 562-74-3 EC: 209-235-5  TERPINEN-4-OL	GHS07, GHS06 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 3, H331 STOT SE 3, H336 Skin Sens. 1, H317		0.1000%

**Specific concentration limits:**

Identification	Specific concentration limits	ATE
CAS: 78-70-6 EC: 201-134-4  LINALOOL		oral: ATE = 2790 mg/kg BW
CAS: 98-55-5 EC: 202-680-6  ALPHA-TERPINEOL		oral: ATE = 4300 mg/kg BW
CAS: 13877-91-3 EC: 237-641-2  3,7-DIMETHYL-1,3,6-OCTATRIENE		oral: ATE = 5000 mg/kg BW
CAS: 106-24-1 EC: 203-377-1  GERANIOL		oral: ATE = 3600 mg/kg BW
CAS: 106-25-2 EC: 203-378-7  NEROL		oral: ATE = 4500 mg/kg BW
CAS: 13466-78-9 EC: 236-719-3  DELTA-3-CARENE		inhalation: ATE = 1.5 mg/l 4h (dust/mist) oral: ATE = 4800 mg/kg BW

**PETITGRAIN OIL PARAGUAY**

CAS: 586-62-9 EC: 209-578-0		oral: ATE = 3775 mg/kg BW
TERPINOLENE		
CAS: 562-74-3 EC: 209-235-5		oral: ATE = 1300 mg/kg BW
TERPINEN-4-OL		

**Information on ingredients :**

[1] Substance for which maximum workplace exposure limits are available.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. description of first aid measures**

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

**4.2. Most important symptoms and effects, both acute and delayed**

No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

No data available.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid any contact with the skin and eyes.

**PETITGRAIN OIL PARAGUAY**

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

**6.3. Methods and material for containment and cleaning up**

Clean preferably with a detergent, do not use solvents.

Important spillage should be contained by use of sand or an inery absorbent product.

Pump and rinse with water after waste recovery.

Waste and rinsing water should be disposed by an accredited company.

**6.4. Reference to other sections**

No data available.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the substance is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this substance.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this substance.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the substance is used.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

Store in cool, dry and ventilated area, away from heat sources, sparks and open flames, protect from light in tightly closed original container.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

CAS	VME :	VME :	Excess	Notes
5989-27-5		5 ppm 28 mg/m3		4(II)

**8.2. Exposure controls**

**Personal protection measures, such as personal protective equipment**

## PETITGRAIN OIL PARAGUAY

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

### - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

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

#### Physical state

Physical state :

Fluid liquid.

Appearance :

Liquid at room temperature.

#### Colour

Color :

Colourless to yellow.

#### Odour

Odour threshold :

Not stated.

Odour :

Fresh, floral, green.

#### Melting point

Melting point/melting range :

Not specified.

#### Freezing point

Freezing point / Freezing range :

Not stated.

#### Boiling point or initial boiling point and boiling range

Boiling point/boiling range :

Not specified.

#### Flammability

Flammability (solid, gas) :

Not stated.

**PETITGRAIN OIL PARAGUAY**

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) Not stated.

:

Explosive properties, upper explosivity limit (%) Not stated.

:

**Flash point**

Flash Point : 75.00 °C.

--Method: ISO 11018:1997 (closed cup).

**Auto-ignition temperature**

Self-ignition temperature : Not specified.

**Decomposition temperature**

Decomposition point/decomposition range : Not specified.

**pH**

pH : Not relevant.

pH (aqueous solution) : Not stated.

**Kinematic viscosity**

Viscosity : Not stated.

Viscosity: v < 7 mm<sup>2</sup>/s (40°C)

--Method: Estimated value.

**Solubility**

Water solubility : Insoluble.

Fat solubility : Not stated.

Solubility : From soluble to opalescent in ethyl alcohol - ISO 875:1999.

**Partition coefficient n-octanol/water (log value)**

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

**Vapour pressure**

Vapour pressure (50°C) : Between 175 kPa and 300 kPa inclusive.

--Method: Estimated value.

**Density and/or relative density**

Density : [0.882; 0.892] - ISO 279:1999.

**Relative vapour density**

Vapour density : Not stated.

**Particle characteristics**

The substance does not contain nanoforms.

**9.2. Other information**

Optical rotation : [-5; -1] - ISO 592:1999.

Index of refraction : [1.455; 1.463] - ISO 280:1999.

Transformation's country : Paraguay.

Country of origin for the raw material : Paraguay.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

Oxidation risk on a long-term period.

**10.2. Chemical stability**

This substance is stable under the recommended handling and storage conditions in section 7.



**PETITGRAIN OIL PARAGUAY**

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Excessive temperatures (>40°C)

Light exposure.

Heat source exposure.

**10.5. Incompatible materials**

Acids, bases and oxidizers.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

May cause an allergic reaction by skin contact.

**11.1.1. Substances**

**Acute toxicity :**

TERPINEN-4-OL (CAS: 562-74-3)

Oral route :

LD50 = 1300 mg/kg bodyweight/day

TERPINOLENE (CAS: 586-62-9)

Oral route :

LD50 = 3775 mg/kg bodyweight/day

DELTA-3-CARENE (CAS: 13466-78-9)

Oral route :

LD50 = 4800 mg/kg bodyweight/day

Inhalation route (Dusts/mist) :

LC50 = 1.5 mg/l

Duration of exposure : 4 h

NEROL (CAS: 106-25-2)

Oral route :

LD50 = 4500 mg/kg bodyweight/day

GERANIOL (CAS: 106-24-1)

Oral route :

LD50 = 3600 mg/kg bodyweight/day

3,7-DIMETHYL-1,3,6-OCTATRIENE (CAS: 13877-91-3)

Oral route :

LD50 = 5000 mg/kg bodyweight/day

ALPHA-TERPINEOL (CAS: 98-55-5)

Oral route :

LD50 = 4300 mg/kg bodyweight/day

LINALOOL (CAS: 78-70-6)

Oral route :

LD50 = 2790 mg/kg bodyweight/day

**11.1.2 Complex substance**

No toxicological data available for the substances.

**11.2. Information on other hazards**

**PETITGRAIN OIL PARAGUAY**

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 123-35-3 : IARC Group 2B : The agent is possibly carcinogenic to humans.

**SECTION 12 : ECOLOGICAL INFORMATION**

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**12.1. Toxicity**

**12.1.2 Complex substance**

No aquatic toxicity data available for the substances.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No data available.

**German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :**

WGK 3 : Extremely hazardous for water.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**14.1. UN number or ID number**

-

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**PETITGRAIN OIL PARAGUAY**

**14.6. Special precautions for user**

-

**14.7. Maritime transport in bulk according to IMO instruments**

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**SECTION 15 : REGULATORY INFORMATION**

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

**Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

**Container information:**

No data available.

**Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):**

Substance not restricted under Annex XVII of Regulation (EC) no. 1907/2006 (REACH):  
<https://echa.europa.eu/substances-restricted-under-reach>.

**Explosives precursors :**

The substance is not subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

**Particular provisions :**

No data available.

**German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBWs) :**

WGK 3 : Extremely hazardous for water.

**Swiss ordinance on the incentive tax on volatile organic compounds :**

99-87-6	p-cymène
111-27-3	hexane-1-ol
5989-27-5	D-limonène ([R]-p-mentha-1,8-diene)

**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

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.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
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.

**PETITGRAIN OIL PARAGUAY**

**Abbreviations and acronyms :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.  
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.  
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.  
ATE : Acute Toxicity Estimate  
BW : Body Weight  
STEL : Short-term exposure limit  
TWA : Time Weighted Averages  
TLV : Threshold Limit Value (exposure)  
AEV : Average Exposure Value.  
ADR : European agreement concerning the international carriage of dangerous goods by Road.  
IMDG : International Maritime Dangerous Goods.  
IATA : International Air Transport Association.  
ICAO : International Civil Aviation Organisation  
RID : Regulations concerning the International carriage of Dangerous goods by rail.  
WGK : Wassergefährdungsklasse (Water Hazard Class).  
GHS07 : Exclamation mark  
PBT: Persistent, bioaccumulable and toxic.  
vPvB : Very persistent, very bioaccumulable.  
SVHC : Substances of very high concern.