

	<b>MATERIAL SAFETY DATA SHEET</b>		<b>CESARE</b>
	<b>ORANGE &amp; SANDALWOOD</b>		
Current review date: 03/01/2020	Current review: 00	Previous review date: - -	Previous review: - -

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Commercial name : ORANGE & SANDALWOOD

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

Professional use : Small spaces EVA air Freshener

uses advised against : All those not expressly identified on label

### 1.3 Details of the supplier of the safety data sheet

#### Supplier of substance/mixture

Joy Fragrances s.r.l. Via Gavinana, 14 - 21052 Busto Arsizio (VA) – Italy

Tel: +39 0331/536942 [www.mrandmrsfragrance.com](http://www.mrandmrsfragrance.com)

e-mail address competent person: [info@joyfragrances.it](mailto:info@joyfragrances.it)

#### CH DISTRIBUTOR

Supair-Tel AG – Europastrasse 30 CH-8152 Glattbrugg

Tel. +41 448721616 – [info@supair.ch](mailto:info@supair.ch)

### 1.4 Emergency telephone number

Tel: +39 0331/536942 (from 08,30 to 12,30 - from 14,00 to 18,00)

SWITZERLAND ([www.who.int/gho/phe/chemical\\_safety/poisons\\_centres/en](http://www.who.int/gho/phe/chemical_safety/poisons_centres/en))

ZURICH Tox ([www.toxi.ch](http://www.toxi.ch)) 145

See section 16 of MSDS for European Antipoison Centre

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification in accordance with Regulation (EC) No 1272/2008:

The product is classified dangerous in accordance with Regulation (EC) 1272/2008 (CLP). The product must be require SDS in accordance with Regulation (UE) 2015/830.

Hazard pictogram(s)	:	GHS07
Hazard class and category codes	:	Skin Sens. 1A, Irrit. Eye 2, Aquatic Chronic 3
Hazard statement codes	:	H317 - May cause an allergic skin reaction H319 – Causes serious eye irritation H412 - Harmful/Toxic to aquatic life with long-lasting effects

#### 2.1.2 Other effects

The product, if brought in to contact with skin, may cause an allergic skin reaction. The product, if brought in to contact with eyes, cause significant inflammation that can last for more than 24 hours. The product is dangerous for environment because harmful to aquatic life with long-lasting effects

### 2.2 Label elements

#### 2.2.1 Label in accordance with Regulation (EC) No 1272/2008

In accordance to article 23(d) and section 1.3.4 in annex I of CLP Regulation, mixtures containing polymers do not require labelling.

Hazard pictogram(s) : None



Signal word : None  
Hazard statement(s) : None  
Suppl. Hazard statement Code(s) : None  
Precautionary statement(s) : None

Although the legislation does not provide for labeling, in order to inform the end user who does not receive the safety data sheet, the Market Entry Manager provides the following information: Keep out of reach of children. It's not a toy. Do not swallow. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Wash hands thoroughly after handling. Avoid release to the environment. Toxic to aquatic life with long-lasting effects. Dispose of contents/container in accordance to local/national regulation. The fragrances, though natural, may cause sensitization and irritation. Contains: Linalyl acetate, Linalool, Citronellal, Cyclohexanopropanol 2,2,3,6-Tetramethyl-.Alpha.-Propyl-, Piperonal, Vetiverol. May produce an allergic reaction.

### 2.3 Other hazards

According to available data, the product NOT contains substances PBT or vPvB in percentage higher than 0,1 in accordance to Regulation (EC) 1907/2006, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

See section 16 for full text of Hazard statement(s).

Substance	Concentration	Classification	CAS	EINECS	REACH
Stoddard solvent	4 ≤ % < 4,5	Asp. Tox. 1 H304	64742-47-8	265-149-8	01-2119484819-18
Index number: Not available					
Linalyl acetate	3,5 ≤ % < 4	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317	115-95-7	204-116-4	01-2119454789-19
Index number: Not available					
Linalool	2,5 ≤ % < 3	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317	78-70-6	201-134-4	01-2119474016-42
Index number: 603-235-00-2					
Pentyl salicylate	1,5 ≤ % < 2	Acute Tox. 4 H302, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1	2050-08-0	218-080-2	01-2120771342-58
Index number: Not available					
2,6-dimethyloct-7-en-2-ol	1,5 ≤ % < 2	Eye Irrit. 2 H319, Skin Irrit. 2 H315	18479-58-8	242-362-4	01-2119457274-37
Index number: Not available					
Propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	1,5 ≤ % < 2	Aquatic Chronic 3 H412	319002-92-1	437-530-0	01-0000018277-65
Index number: Not available					

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<b>A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol</b>	1 ≤ % < 1,5	Eye Irrit. 2 H319	63500-71-0	405-040-6	01-0000015458-64
Index number: Not available					
<b>Ethyl linalool</b>	1 ≤ % < 1,5	Eye Irrit. 2 H319, Skin Irrit. 2 H315	10339-55-6	233-732-6	01-2119969272-32
Index number: Not available					
<b>3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate</b>	1 ≤ % < 1,5	Eye Irrit. 2 H319, Aquatic Chronic 2 H411	17511-60-3	241-514-7	--
Index number: Not available					
<b>(Z)-3-hexenyl salicylate</b>	0,1 ≤ % < 0,15	Aquatic Acute 1 H400 M=1	65405-77-8	265-745-8	01-2119987320-37
Index number: Not available					
<b>Vetiverol</b>	0,1 ≤ % < 0,15	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317	68129-81-7	268-578-9	--
Index number: Not available					
<b>Piperonal</b>	0,1 ≤ % < 0,15	Skin Sens. 1B H317	120-57-0	204-409-7	01-2119983608-21
Index number: Not available					
<b>Cyclohexanepropanol, 2,2,3,6-Tetramethyl-.Alpha.-Propyl-</b>	0,1 ≤ % < 0,15	Skin Sens. 1B H317, Aquatic Chronic 4 H413	95851-08-4	478-330-3	01-0000019969-47
Index number: Not available					
<b>Citronellal</b>	0,1 ≤ % < 0,15	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 3 H412	106-23-0	203-376-6	01-2119474900-37
Index number: Not available					

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Inhalation:** Given the specificity of the product and the small quantities of substances present in the article, conditions such as to require first aid measures are not expected.

**Skin (pure product):** Wash the areas of the body that have come into contact with the product with plenty of water and soap, even if only suspicious.

**Eyes (pure product):** Given the structure of the product, accidental contacts are unpredictable and of mainly traumatic and / or voluntary origin. In the event, apply fresh packs and, if the painful phenomena should continue, contact the medical staff.

**Ingestion:** SEEK MEDICAL ATTENTION IMMEDIATELY.

### 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

See section 4.1 – Description of first aid measures.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media :** Water spray, CO<sub>2</sub>, alcohol resistant foam, chemical powder depending on the materials involved in the fire.

**Unsuitable extinguishing media:** None in particular.

### 5.2 Special hazards arising from the substance or mixture

Potentially harmful fumes may develop during combustion. If exposed to the flame it catches fire and continues to burn with a flame that is not very bright even if it is removed from the heat source.

### 5.3 Advice for firefighters

Use protective clothing for the respiratory tract, eyes and skin. The water spray can be used to disperse the vapors and protect the people involved in the extinction. It is also advisable to use self-contained breathing apparatus, above all, when working in closed and poorly ventilated areas. Wear the protective equipment specific to the fire team. Given the polymeric characteristics of the material, the possible presence of considerable quantities of product in the areas involved in the fire, can be a source of risk in causing the re-ignition of the fire in the presence of oxygen since the inner layers can conserve heat. It is therefore necessary, in the event of a fire in environments where large quantities of product have been involved, to dissipate the heat retained inside.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel:** Move away from the area surrounding the spill or release. Not smoking.

**For emergency responders:** General information: No smoking. Use suitable personal protective equipment, see Section 8.

### 6.2 Environmental precautions

Collect spilled product.

### 6.3 Methods and material for containment and cleaning up

Collect the product for possible reuse or disposal.

### 6.4 Reference to other sections

See sections 8 and 13 for further information

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Normal precautions for handling sensitizing chemicals protecting against accidental contact. Do not smoke, eat or drink while handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in original packaging in a cool, ventilated place away from heat sources.

### 7.3 Specific end use(s)

Consumer uses: Follow the instructions on the label.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Control parameters relatives to substances contained if available

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## ORANGE & SANDALWOOD

### CESARE

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**Substance:** Stoddard solvent**CAS:** 64742-47-8**GESTIS International Limit Values**

	Limit value - Eight hours				Limit value - Short term			
	ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
Germany (DFG)	50 (1)		350 (1)		100 (1)(3)		700 (1)(3)	
Switzerland	--		5 (2)		--		20 (2)(3)	
	50		350		100 (2)		700 (2)	
	--		5 (1)		--		--	

**Remarks**

(1) Vapour (2) Airborne particles, inhalable fraction (3) 15 minutes average value

(1) Inhalable fraction (2) 15 minutes average value

Link ECHA <https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15375>

	DNEL (Workers)				DNEL (Population)				
	Systemic		Local		Systemic		Local		
	Long term	Short term	Long term	Short term	Long term	Short term	Long term	Short term	
Inhalation (mg/m <sup>3</sup> )	no hazard identified	no hazard identified	no hazard identified	no hazard identified	Inhalation (mg/m <sup>3</sup> )	no hazard identified	no hazard identified	no hazard identified	no hazard identified
Dermal (mg/kg bw/day)	no hazard identified	no hazard identified	low hazard (no threshold derived)	low hazard (no threshold derived)	Dermal (mg/kg bw/day)	no hazard identified	no hazard identified	low hazard (no threshold derived)	low hazard (no threshold derived)
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	18,75	no hazard identified	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	no hazard identified	Not available	Eyes (mg/kg bw/day)	Not available	Not available	no hazard identified	Not available

**PNEC**

Freshwater (mg/l)	no data available: testing technically not feasible	Intermittent (mg/l)	no data available: testing technically not feasible	Marine water (mg/l)	no data available: testing technically not feasible
STP (mg/l)	no data available: testing technically not feasible	Sediment (freshwater) (mg/kg/sediment)	no data available: testing technically not feasible	Sediment (marine water) (mg/kg/sediment)	no data available: testing technically not feasible
Air	no hazard identified	Soil (mg/kg soil)	no data available: testing technically not feasible	Hazard for predators g/kg food	insufficient hazard data available: testing technically not feasible

**Substance:** Linalyl acetate**CAS:** 115-95-7**GESTIS International Limit Values**

	Limit value - Eight hours				Limit value - Short term			
	ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
	Not available		Not available		Not available		Not available	
<b>Remarks</b>								
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Link ECHA <https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14484>

	DNEL (Workers)				DNEL (Population)				
	Systemic		Local		Systemic		Local		
	Long term	Short term	Long term	Short term	Long term	Short term	Long term	Short term	
Inhalation (mg/m <sup>3</sup> )	2,75	no hazard identified	no hazard identified	no hazard identified	Inhalation (mg/m <sup>3</sup> )	0,68	no hazard identified	no hazard identified	no hazard identified
Dermal (mg/kg bw/day)	2,5	no hazard identified	0,2362	0,2362	Dermal (mg/kg bw/day)	1,25	no hazard identified	0,2362	0,2362
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	0,2	no hazard identified	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	low hazard (no threshold derived)	Not available	Eyes (mg/kg bw/day)	Not available	Not available	low hazard (no threshold derived)	Not available

**PNEC**

Freshwater (mg/l)	0,011	Intermittent (mg/l)	0,11	Marine water (mg/l)	0,001
STP (mg/l)	10	Sediment (freshwater) (mg/kg/sediment)	0,609	Sediment (marine water) (mg/kg/sediment)	0,061
Air	no hazard identified	Soil (mg/kg soil)	0,115	Hazard for predators g/kg food	no potential for bioaccumulation

**Substance:** Linalool**CAS:** 78-70-6**GESTIS International Limit Values**

	Limit value - Eight hours				Limit value - Short term			
	ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
	Not available		Not available		Not available		Not available	
<b>Remarks</b>								
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Link ECHA <https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14501>

	DNEL (Workers)				DNEL (Population)				
	Systemic		Local		Systemic		Local		
	Long term	Short term	Long term	Short term	Long term	Short term	Long term	Short term	
Inhalation (mg/m <sup>3</sup> )	2,8	16,5	Not available	Not available	Inhalation (mg/m <sup>3</sup> )	0,7	4,1	Not available	Not available
Dermal (mg/kg bw/day)	2,5	5	3	3	Dermal (mg/kg bw/day)	1,25	2,5	1,5	1,5
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	0,2	1,2	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Low hazard (no threshold derived)	Not available	Eyes (mg/kg bw/day)	Not available	Not available	Low hazard (no threshold derived)	Not available

**PNEC**

Freshwater (mg/l)	0,2	Intermittent (mg/l)	2	Marine water (mg/l)	0,02
STP (mg/l)	10	Sediment (freshwater) (mg/kg/sediment)	2,22	Sediment (marine water) (mg/kg/sediment)	0,222
Air	Not available	Soil (mg/kg soil)	0,327	Hazard for predators g/kg food	7,8

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## ORANGE & SANDALWOOD

### CESARE

Current review date: 03/01/2020

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**Substance:** Pentyl salicylate**CAS:** 2050-08-0**GESTIS International Limit Values**

	Limit value - Eight hours				Limit value - Short term				
	ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>		
	Not available		Not available		Not available		Not available		
Remarks									
Link ECHA <a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/25677">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/25677</a>									
DNEL (Workers)					DNEL (Population)				
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m <sup>3</sup> )	3,17	no hazard identified	no hazard identified	no hazard identified	Inhalation (mg/m <sup>3</sup> )	0,78	no hazard identified	no hazard identified	no hazard identified
Dermal (mg/kg bw/day)	0,9	no hazard identified	no hazard identified	no hazard identified	Dermal (mg/kg bw/day)	0,45	no hazard identified	no hazard identified	no hazard identified
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	0,45	no hazard identified	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	no hazard identified	Not available	Eyes (mg/kg bw/day)	Not available	Not available	no hazard identified	Not available
<b>PNEC</b>									
Freshwater (mg/l)	0,00077	Intermittent (mg/l)		0,0077	Marine water (mg/l)	0,000077			
STP (mg/l)	10	Sediment (freshwater) (mg/kg/sediment)		0,39	Sediment (marine water) (mg/kg/sediment)	0,039			
Air	no hazard identified	Soil (mg/kg soil)		1,786	Hazard for predators g/kg food	80			

**Substance:** 2,6-dimethyloct-7-en-2-ol**CAS:** 18479-58-8**GESTIS International Limit Values**

	Limit value - Eight hours				Limit value - Short term				
	ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>		
	Not available		Not available		Not available		Not available		
Remarks									
Link ECHA <a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15832">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15832</a>									
DNEL (Workers)					DNEL (Population)				
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m <sup>3</sup> )	73,5	no hazard identified	no hazard identified	no hazard identified	Inhalation (mg/m <sup>3</sup> )	21,7	no hazard identified	no hazard identified	no hazard identified
Dermal (mg/kg bw/day)	20,8	no hazard identified	no hazard identified	no hazard identified	Dermal (mg/kg bw/day)	12,5	no hazard identified	no hazard identified	no hazard identified
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	12,5	no hazard identified	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	no hazard identified	Not available	Eyes (mg/kg bw/day)	Not available	Not available	no hazard identified	Not available
<b>PNEC</b>									
Freshwater (mg/l)	0,0278	Intermittent (mg/l)		0,278	Marine water (mg/l)	0,00278			
STP (mg/l)	10	Sediment (freshwater) (mg/kg/sediment)		0,594	Sediment (marine water) (mg/kg/sediment)	0,059			
Air	no hazard identified	Soil (mg/kg soil)		0,103	Hazard for predators g/kg food	111			

**Substance:** Propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate**CAS:** 319002-92-1**GESTIS International Limit Values**

	Limit value - Eight hours				Limit value - Short term				
	ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>		
	Not available		Not available		Not available		Not available		
Remarks									
Link ECHA <a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/11915">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/11915</a>									
DNEL (Workers)					DNEL (Population)				
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m <sup>3</sup> )	8,8	Not available	Not available	Not available	Inhalation (mg/m <sup>3</sup> )	2,17	Not available	Not available	Not available
Dermal (mg/kg bw/day)	2,5	Not available	Not available	Not available	Dermal (mg/kg bw/day)	1,25	Not available	Not available	Not available
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	1,25	Not available	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available	Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available
<b>PNEC</b>									
Freshwater (mg/l)	0,013	Intermittent (mg/l)		0,13	Marine water (mg/l)	0,001			
STP (mg/l)	10	Sediment (freshwater) (mg/kg/sediment)		0,117	Sediment (marine water) (mg/kg/sediment)	0,012			
Air	Not available	Soil (mg/kg soil)		0,016	Hazard for predators g/kg food	27,8			

**Substance:** A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol**CAS:** 63500-71-0**GESTIS International Limit Values**

	Limit value - Eight hours				Limit value - Short term				
	ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>		
	Not available		Not available		Not available		Not available		
Remarks									

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Link ECHA <a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14480">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14480</a>									
DNEL (Workers)					DNEL (Population)				
Systemic		Local			Systemic		Local		
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
inhalation (mg/m <sup>3</sup> )	44,1	No hazard identified	No hazard identified	No hazard identified	inhalation (mg/m <sup>3</sup> )	13	No hazard identified	No hazard identified	No hazard identified
Dermal (mg/kg bw/day)	41,7	No hazard identified	No hazard identified	No hazard identified	Dermal (mg/kg bw/day)	25	No hazard identified	No hazard identified	No hazard identified
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	7,5	No hazard identified	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Medium hazard (no threshold derived)	Not available	Eyes (mg/kg bw/day)	Not available	Not available	No hazard identified	Not available
<b>PNEC</b>									
Freshwater (mg/l)	0,094	Intermittent (mg/l)			0,94	Marine water (mg/l)			0,009
STP (mg/l)	10	Sediment (freshwater) (mg/kg/sediment)			0,412	Sediment (marine water) (mg/kg/sediment)			0,041
Air	No hazard identified	Soil (mg/kg soil)			0,09	Hazard for predators g/kg food			no potential to cause toxic effects if accumulated (in higher organisms) via the food chain

<b>Substance:</b>	Ethyl linalool
<b>CAS:</b>	10339-55-6
<b>GESTIS International Limit Values</b>	
Limit value - Eight hours	
ppm	mg/m <sup>3</sup>
Not available	Not available
Limit value - Short term	
ppm	mg/m <sup>3</sup>
Not available	Not available
Remarks	
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Link ECHA <a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13181">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13181</a>									
DNEL (Workers)					DNEL (Population)				
Systemic		Local			Systemic		Local		
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
inhalation (mg/m <sup>3</sup> )	3	18	no hazard identified	no hazard identified	inhalation (mg/m <sup>3</sup> )	0,74	4,4	no hazard identified	no hazard identified
Dermal (mg/kg bw/day)	2,7	5,5	16	16	Dermal (mg/kg bw/day)	1,4	2,7	16	16
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	0,2	1,3	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available	Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available
<b>PNEC</b>									
Freshwater (mg/l)	0,023	Intermittent (mg/l)			0,23	Marine water (mg/l)			0,002
STP (mg/l)	10	Sediment (freshwater) (mg/kg/sediment)			0,223	Sediment (marine water) (mg/kg/sediment)			0,022
Air	Not available	Soil (mg/kg soil)			0,031	Hazard for predators g/kg food			8,53

<b>Substance:</b>	3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate
<b>CAS:</b>	17511-60-3
<b>GESTIS International Limit Values</b>	
Limit value - Eight hours	
ppm	mg/m <sup>3</sup>
Not available	Not available
Limit value - Short term	
ppm	mg/m <sup>3</sup>
Not available	Not available
Remarks	
--	

Link ECHA --									
DNEL (Workers)					DNEL (Population)				
Systemic		Local			Systemic		Local		
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
inhalation (mg/m <sup>3</sup> )	Not available	Not available	Not available	Not available	inhalation (mg/m <sup>3</sup> )	Not available	Not available	Not available	Not available
Dermal (mg/kg bw/day)	Not available	Not available	Not available	Not available	Dermal (mg/kg bw/day)	Not available	Not available	Not available	Not available
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available	Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available
<b>PNEC</b>									
Freshwater (mg/l)	Not available	Intermittent (mg/l)			Not available	Marine water (mg/l)			Not available
STP (mg/l)	Not available	Sediment (freshwater) (mg/kg/sediment)			Not available	Sediment (marine water) (mg/kg/sediment)			Not available
Air	Not available	Soil (mg/kg soil)			Not available	Hazard for predators g/kg food			Not available

<b>Substance:</b>	(Z)-3-hexenyl salicylate
<b>CAS:</b>	65405-77-8
<b>GESTIS International Limit Values</b>	
Limit value - Eight hours	
ppm	mg/m <sup>3</sup>
Not available	Not available
Limit value - Short term	
ppm	mg/m <sup>3</sup>
Not available	Not available
Remarks	
--	

Link ECHA <a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/12174">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/12174</a>									
DNEL (Workers)					DNEL (Population)				
Systemic		Local			Systemic		Local		
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
inhalation (mg/m <sup>3</sup> )	1,59	No hazard identified	No hazard identified	No hazard identified	inhalation (mg/m <sup>3</sup> )	0,39	No hazard identified	No hazard identified	No hazard identified

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Dermal (mg/kg bw/day)	0,9	No hazard identified	No hazard identified	No hazard identified	Dermal (mg/kg bw/day)	0,45	No hazard identified	No hazard identified	No hazard identified
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	0,23	No hazard identified	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	No hazard identified	Not available	Eyes (mg/kg bw/day)	Not available	Not available	No hazard identified	Not available
<b>PNEC</b>									
Freshwater (mg/l)	0,00061	Intermittent (mg/l)			0,0061	Marine water (mg/l)			0,00061
STP (mg/l)	10	Sediment (freshwater) (mg/kg/sediment)			0,11	Sediment (marine water) (mg/kg/sediment)			0,011
Air	No hazard identified	Soil (mg/kg soil)			0,022	Hazard for predators g/kg food			40

**Substance:** Vetiverol  
**CAS:** 68129-81-7

#### GESTIS International Limit Values

Limit value - Eight hours				Limit value - Short term			
ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
Not available		Not available		Not available		Not available	
Remarks							
-							

Link ECHA

DNEL (Workers)					DNEL (Population)				
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m <sup>3</sup> )	Not available	Not available	Not available	Not available	Inhalation (mg/m <sup>3</sup> )	Not available	Not available	Not available	Not available
Dermal (mg/kg bw/day)	Not available	Not available	Not available	Not available	Dermal (mg/kg bw/day)	Not available	Not available	Not available	Not available
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available	Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available
<b>PNEC</b>									
Freshwater (mg/l)	Not available	Intermittent (mg/l)			Not available	Marine water (mg/l)			Not available
STP (mg/l)	Not available	Sediment (freshwater) (mg/kg/sediment)			Not available	Sediment (marine water) (mg/kg/sediment)			Not available
Air	Not available	Soil (mg/kg soil)			Not available	Hazard for predators g/kg food			Not available

**Substance:** Piperonal  
**CAS:** 120-57-0

#### GESTIS International Limit Values

Limit value - Eight hours				Limit value - Short term			
ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
Not available		Not available		Not available		Not available	
Remarks							
-							

Link ECHA <https://echa.europa.eu/it/registration-dossier/-/registered-dossier/5265>

DNEL (Workers)					DNEL (Population)				
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m <sup>3</sup> )	17.6	No hazard identified	No hazard identified	No hazard identified	Inhalation (mg/m <sup>3</sup> )	4.3	No hazard identified	No hazard identified	No hazard identified
Dermal (mg/kg bw/day)	2.5	No hazard identified	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	Dermal (mg/kg bw/day)	1.25	No hazard identified	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	1.25	Not available	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	No hazard identified	Not available	Eyes (mg/kg bw/day)	Not available	Not available	No hazard identified	Not available
<b>PNEC</b>									
Freshwater (mg/l)	0.0025	Intermittent (mg/l)			0.025	Marine water (mg/l)			0.00025
STP (mg/l)	10	Sediment (freshwater) (mg/kg/sediment)			0.0119	Sediment (marine water) (mg/kg/sediment)			0.0012
Air	No hazard identified	Soil (mg/kg soil)			0.00084	Hazard for predators g/kg food			no potential to cause toxic effects if accumulated (in higher organisms) via the food chain

**Substance:** Cyclohexanopropanol, 2,2,3,6-Tetramethyl-.Alpha.-Propyl-  
**CAS:** 95851-08-4

#### GESTIS International Limit Values

Limit value - Eight hours				Limit value - Short term			
ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
Not available		Not available		Not available		Not available	
Remarks							
-							

Link ECHA <https://echa.europa.eu/it/registration-dossier/-/registered-dossier/8741>

DNEL (Workers)					DNEL (Population)				
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m <sup>3</sup> )	Not available	Not available	Not available	Not available	Inhalation (mg/m <sup>3</sup> )	Not available	Not available	Not available	Not available
Dermal (mg/kg bw/day)	Not available	Not available	Not available	Not available	Dermal (mg/kg bw/day)	Not available	Not available	Not available	Not available
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available	Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available

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PNEC		Intermittent (mg/l)		Marine water (mg/l)	
Freshwater (mg/l)	Not available	Sediment (freshwater) (mg/kg/sediment)	Not available	Sediment (marine water) (mg/kg/sediment)	Not available
STP (mg/l)	Not available	Soil (mg/kg soil)	Not available	Hazard for predators g/kg food	Not available
Air	Not available				

**Substance:** Citronellale**CAS:** 106-23-0**GESTIS International Limit Values**

ppm	Limit value - Eight hours		Limit value - Short term	
	mg/m <sup>3</sup>	mg/m <sup>3</sup>	mg/m <sup>3</sup>	mg/m <sup>3</sup>
Not available	Not available	Not available	Not available	Not available

Remarks

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Link ECHA <https://echa.europa.eu/it/registration-dossier/-/registered-dossier/11671>

	DNEL (Workers)				DNEL (Population)				
	Systemic		Local		Systemic		Local		
	Long term	Short term	Long term	Short term	Long term	Short term	Long term	Short term	
Inhalation (mg/m <sup>3</sup> )	9	No hazard identified	No hazard identified	No hazard identified	Inhalation (mg/m <sup>3</sup> )	2,7	No hazard identified	No hazard identified	No hazard identified
Dermal (mg/kg bw/day)	1,7	No hazard identified	0,140	Low hazard (no threshold derived)	Dermal (mg/kg bw/day)	1	No hazard identified	0,140	Low hazard (no threshold derived)
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	0,6	No hazard identified	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Low hazard (no threshold derived)	Not available	Eyes (mg/kg bw/day)	Not available	Not available	Low hazard (no threshold derived)	Not available

PNEC		Intermittent (mg/l)		Marine water (mg/l)	
Freshwater (mg/l)	0,009	Sediment (freshwater) (mg/kg/sediment)	0,087	Sediment (marine water) (mg/kg/sediment)	0,001
STP (mg/l)	4	Soil (mg/kg soil)	0,159	Hazard for predators g/kg food	0,016
Air	No hazard identified		0,027		no potential for bioaccumulation


**8.2 Exposure controls**

If as a result of the risk assessment and the adoption of technical preventive and / or organizational measures of collective protection it results that there is still a residual risk for the worker, it is necessary to equip the worker with the Personal Protective Equipment.


**8.2.1 Appropriate engineering controls**

Data not available


**8.2.2 Individual protection measures, such as personal protective equipment****A. EYE/FACE PROTECTION**

PICTOGRAM	PPE	NOTES
 GLASS	PPE for eyes are a second category and must be marked with CE and number of Notify body that certified them. EN166 Personal eye-protection - Specifications	Not necessary in normal use


**B. HAND PROTECTION**

PICTOGRAM	PPE	NOTES
 GLOVES	Gloves that protect from chemicals. EN374 Protective gloves against dangerous chemicals and micro-organisms.	Not necessary in normal use

**C. BODY PROTECTION**

PICTOGRAM	PPE	NOTES
 WORKING CLOTHES	EN 13688 Protective clothing - General requirements	Not necessary in normal use

**D. RESPIRATORY PROTECTION**

PICTOGRAM	PPE	NOTES
 FILTER MASK	The choice of PPE must be in accordance with EN 529:2006 (Respiratory protective devices - Recommendations for selection, use, care and maintenance - Guidance document). e.g. it's possible to use mask in accordance with EN149 - Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking).	Not necessary in normal use

**E. THERMAL HAZARDS**

Avoid exposure to open flames.

**F. ENVIRONMENTAL EXPOSURE CONTROLS**

Avoid release of product into the environment.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

The following physical and chemical properties aren't technical specifications. Specific references are in technical documentation.

Physical and Chemical properties	Value	Notes or analytical method
Appearance	Scented object in EVA polymer	
Odour	Characteristics	
Odour threshold	Not available	
pH	Not applicable	
Melting point/freezing point	Not available	

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Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not applicable
Solubility(ies)	Insoluble
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

**9.2 Other information**

No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

In normal conditions of use and following the recommended use methods, no risk of reactivity.

**10.2 Chemical stability**

Stable under normal conditions of use and storage.

**10.3 Possibility of hazardous reactions**

None known under normal conditions of use.

**10.4 Conditions to avoid**

Shock	Air	Heating	Light	Humidity
No precaution	No precaution	Do not expose to open flames	No precaution	No precaution

**10.5 Incompatible materials**

Acids	Bases	Water	Oxidising/Reducing	Other
Avoid contact	Avoid contact	No precaution	Avoid contact	Chemicals

**10.6 Hazardous decomposition products**

Under normal conditions it does not decompose.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Hazard classes		Classification
(a)	Acute toxicity	: Based on available data, the classification criteria are not met
(b)	Skin corrosion/irritation	: Based on available data, the classification criteria are not met
(c)	Serious eye damage/irritation	: The product, if brought in to contact with eyes, cause significant inflammation that can last for more than 24 hours.
(d)	Respiratory or skin sensitisation	: If brought in to contact with skin, may cause an allergic skin reaction
(e)	Germ cell mutagenicity	: Based on available data, the classification criteria are not met
(f)	Carcinogenicity	: Based on available data, the classification criteria are not met
(g)	Reproductive toxicity	: Based on available data, the classification criteria are not met
(h)	STOT-single exposure	: Based on available data, the classification criteria are not met
(i)	STOT-repeated exposure	: Based on available data, the classification criteria are not met
(j)	Aspiration hazard	: Based on available data, the classification criteria are not met

Relatives substances contained: No data available

**SECTION 12: Ecological information****12.1 Toxicity**

The product is dangerous for environment because harmful to aquatic life with long-lasting effects. Use according to good working practices, avoiding to disperse the product in the environment.

**12.2 Persistence and degradability**

May cause long-term adverse effects in the aquatic environment.

**12.3 Bioaccumulative potential**

Data not available

**12.4 Mobility in soil**

Data not available

**12.5 Results of PBT and vPvB assessment**

The product NOT contains substances PBT or vPvB in accordance to Regulation (EC) 1907/2006, annex XIII.

**12.6 Other adverse effects**

Data not available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Any product residues must be disposed of according to the regulations in force by contacting authorized companies. Operate according to local and national regulations. Do not reuse empty containers. Given that the product is consumed completely during use, the empty containers are urban waste (OTR art.3).



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**SECTION 14: Transport information**

		ADR	IMDG	IATA	
14.1	UN number	Not applicable			
14.2	UN proper shipping name	Not applicable			
14.3	Transport hazard class(es)	Not applicable			
	Label	Not applicable			
14.4	Packing group	Not applicable			
	Limited quantities	Not applicable			
	Inner packaging	Not applicable		Not applicable	
	External packaging	Not applicable		Not applicable	
	Packing Instruction	Not applicable	Not applicable	Not applicable	
	Tunnel restriction code	Not applicable	Not applicable	Not applicable	
	EmS	Not applicable	Not applicable	Not applicable	
Stowage and segregation	Not applicable	Not applicable	Not applicable		
14.5	Environmental hazards	Not applicable			
	Marine pollutant	Not applicable			
14.6	Special precautions for user	Not applicable			
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable			

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

**REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006** concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

**REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008** on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 COMMISSION REGULATION (EC) No 790/2009, of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

**15.2 Chemical safety assessment**

Chemical Safety assessment for mixture not provided. This SDS contains one or more ES. The content, is include in section 1.2,8,9,12,15 and 16 of this SDS.

**SECTION 16: Other information****Description of Hazard class and category codes in section 3**

<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Skin Sens.1, 1A, 1B</b>	Skin sensitization, category 1, 1A and 1B
<b>Acute Tox. 4</b>	Acute toxicity (oral), category 4
<b>Aquatic Acute 1</b>	SHORT-TERM (ACUTE) AQUATIC HAZARD
<b>Aquatic Chronic 3</b>	LONG-TERM (CHRONIC) AQUATIC HAZARD, category 3
<b>Aquatic Chronic 2</b>	LONG-TERM (CHRONIC) AQUATIC HAZARD, category 2
<b>Aquatic Chronic 4</b>	LONG-TERM (CHRONIC) AQUATIC HAZARD, category 4
<b>M-factor</b>	Multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute or chronic category 1

**Description of Hazard statement(s) in section 3**

<b>H304 =</b>	May be fatal if swallowed and enters airways
<b>H319 =</b>	Causes serious eye irritation
<b>H315 =</b>	Causes skin irritation
<b>H317 =</b>	May cause an allergic skin reaction
<b>H302 =</b>	Harmful if swallowed
<b>H400 =</b>	Very toxic to aquatic life
<b>H412 =</b>	Harmful to aquatic life with long-lasting effects
<b>H411 =</b>	Toxic to aquatic life with long-lasting effects
<b>H413 =</b>	May cause long lasting harmful effects to aquatic life

Classification made based on the data of all the components of the mixture

**ANTIPOISON CENTRE**

EUROPE			
<b>Antipoison centre</b>	AUSTRIA - Vergiftungsinformationszentrale	<b>Antipoison centre</b>	BELGIUM - Centre Antipoisons-Antigifcentrum
<b>Emergency phone</b>	+43 1 406 43 43	<b>Emergency phone</b>	+32 70 245 245
<b>Antipoison centre</b>	CROATIA - Poison Control Centre Zagreb	<b>Antipoison centre</b>	FRANCE - ORFILA - Liste des centres anti poison
<b>Emergency phone</b>	+358 1 2348 342	<b>Emergency phone</b>	+33 1 40 05 48 48
<b>Antipoison centre</b>	FRANCE - Centre antipoison et de toxicovigilance de Paris	<b>Antipoison centre</b>	GERMANY - Deutschland Notrufnummer
<b>Emergency phone</b>	+33 (0)1 40 05 48 48	<b>Emergency phone</b>	+49 030 30 68 67 90
<b>Antipoison centre</b>	NETHERLANDS - National Poisons Information Centre	<b>Antipoison centre</b>	SPAIN - Emergencias y consultas toxicológicas
<b>Emergency phone</b>	+31 30 274 88 88	<b>Emergency phone</b>	+34 915 620 420

**SOURCES**

ECHA	European Chemicals Agency	OSHA	European Agency for Safety and Health at Work	IARC	International Agency for Research on Cancer
IPCS	International Programme on Chemical Safety (Cards)	NIOSH	Registry of toxic effects of chemical substances (1983)	ACGIH	American Conference of Governmental Industrial Hygienists
TOXNET	Toxicology Data Network	WHO	World Health Organization	ChELIST	Chemical Lists Information System
IFA	Institute für Arbeitsschutz.				

**ACRONYMS AND ABBREVIATIONS USED IN MSDS**

CAS:	Chemical Abstracts Service	GHS:	Globally Harmonized System	ppm:	Parts per million	UN:	United Nations
DNEL:	Derived no-effect level	PNEC:	Predicted no-effect level	EWC:	European Waste Catalogue	EC50:	Effective Concentration 50
EC:	European Inventory of Existing Commercial Chemical Substances	K <sub>oc</sub> :	Adsorption coefficient on organic matter	STP:	Micro-organism in waste water treatment plants	TLV - TWA:	time-weighted average
TLV - STEL:	Threshold Limit Value	EN:	Code identifying the standards developed by CEN	IMDG:	International Maritime Dangerous Goods	VME:	Limit value of average exposure
VL:	Limit value of exposure	N.A.:	Not Available	N.Ap.:	Not applicable	DMEL:	Derived minimum effect level
PPE:	Personal Protective Equipment	N.O.S.:	Not Otherwise Specified	EINECS:	European Inventory of Existing Commercial Chemical Substances	ISO:	International Standard Organization
CEN:	European Committee for Standardization	ATEmix:	Toxicity point estimate of mixture	DL50:	Lethal dose 50	CL50:	Lethal concentration 50

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STOT:	Specific Target Organ Toxicity	PBT:	Persistent, Bioaccumulative and Toxic	vPvB:	very persistent and very bioaccumulative	IATA:	International Air Transport Association
ADR:	Accord européen relatif au transport international des marchandises Dangereuses par Route	REACH:	Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency	EmS:	Emergency Response Procedures for Ships Carrying Dangerous Goods		

This material safety data sheet shall replace all previously review.

**Safety Data Sheet according to Regulation (EU) No. 2015/830 of 29 May 2015 and subsequent amendments**

The information in this SDS was obtained from the best that is available or to our knowledge on the market at the specified review date. Neither the Company registered holder of this card nor the subsidiaries will accept any complaints arising from improper use of the information set forth herein or from improper use of the product in the application. Pay particular attention to the use of preparations because improper use can increase the hazard.

This safety data sheet has been translated with an automatic system.  
We thank all the people who want to report any anomalies in the translation.