

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name : INSPARATION SPA BATH MANGOSTEEN & GOJI LIQUID  
Product code : 755558003804

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

Application : SU21 Consumer product. PC0 Other. Pool and spa maintenance.

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

Supplier : inSPAration Europe  
Industrieweg 8b  
5571 LJ Bergeijk, The Netherlands  
Telephone : +31 497 555562  
E-mail : info@insparation.com

**1.4. Emergency telephone number**

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:  
NL - Telephone : +31 497 555562 (During office hours only)

**SECTION 2 HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

CLP classification : Hazardous to the aquatic environment — Chronic category 3.  
(1272/2008/EC)

Human health hazards : May produce an allergic reaction.  
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Combustible.  
Environmental hazards : Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

Label elements (1272/2008/EC):

Hazard pictograms : None.  
Signal word : Not applicable.  
H- and P-phrases : H412 Harmful to aquatic life with long lasting effects.  
EUH208 Contains ... May produce an allergic reaction. Reference is made to additional labelling for full text of EUH208\*.  
P501 Dispose of contents/container to an official chemical waste depot.  
P273 Avoid release to the environment.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms : None.  
Signal word : Not applicable.  
H- and P-phrases : H412 Harmful to aquatic life with long lasting effects.  
EUH208 Contains ... May produce an allergic reaction. Reference is made to additional labelling for full text of EUH208\*.

Additional labelling (for all packaging sizes)

: \* Contains d-Limonene ; Linalool ; alpha-Hexylcinnamaldehyde ; 4-tert-Butylcyclohexyl acetate .  
May produce an allergic reaction.

### 2.3. Other hazards

Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Propyleneglycol	> 75	57-55-6	200-338-0	MAC	01-2119456809-23
d-Limonene	0,25 - < 1	5989-27-5	227-813-5		
Benzyl benzoate	0,1 - < 1	120-51-4	204-402-9		
Linalool	0,1 - < 1	78-70-6	201-134-4		
alpha-Hexylcinnamaldehyde	0,1 - < 1	101-86-0	202-983-3		
4-tert-Butylcyclohexyl acetate	0,1 - < 1	32210-23-4	250-954-9		

Substance name	Hazard Class	H-phrases	Pictograms	
Propyleneglycol	-----	-----	-----	
d-Limonene	Aquatic Acute 1; Aquatic Chronic 1; Asp. Tox. 1; Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B	H226; H304; H315; H317; H400; H410	GHS02; GHS07; GHS08; GHS09	M (acute) = 1
Benzyl benzoate	Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 2	H302; H400; H411	GHS07; GHS09	M (acute) = 1
Linalool	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B	H315; H317; H319	GHS07	
alpha-Hexylcinnamaldehyde	Aquatic Acute 1; Aquatic Chronic 2; Skin Sens. 1B	H317; H400; H411	GHS07; GHS09	M (acute) = 1
4-tert-Butylcyclohexyl acetate	Skin Sens. 1B	H317	GHS07	

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

## SECTION 4 FIRST-AID MEASURES

### 4.1. Description of first aid measures

First aid measures

- Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.
- Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms

- Inhalation : May cause headache, dizziness and a feeling of sickness.  
Skin contact : May produce an allergic reaction. May cause dry skin.  
Eye contact : May cause stinging of eyes and redness.  
Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

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

Note to physicians : None known.

**SECTION 5 FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

Extinguishing media

- Suitable : Carbondioxide (CO2). Alcohol resistant foam. Dry chemical. Water fog.  
Not suitable : None known.

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

- Special exposure hazards : None known.  
Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

**5.3. Advice for firefighters**

Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

**6.2. Environmental precautions**

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.  
Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

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

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

**6.4. Reference to other sections**

Reference to other sections : See also section 8.

**SECTION 7 HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Keep away from sources of ignition — No smoking. Do not breathe vapour. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

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

Storage : Keep in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents.  
Recommended packaging : Keep only in the original container.  
Non recommended packaging : None known.

### 7.3. Specific end use(s)

Use : Use only as directed.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m<sup>3</sup>):

Chemical name	Country	TWA 8 hour (mg/m <sup>3</sup> )	STEL 15 min (mg/m <sup>3</sup> )	Comments	Source
Propyleneglycol	GB	474	-	Total Vapour and Particulates	
Propyleneglycol		474		Total Vapour and Particulates	MAC: UK
d-Limonene		28	80		MAC: DE, CH

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Propyleneglycol	Inhalation			10 mg/m <sup>3</sup>	168 mg/m <sup>3</sup>
d-Limonene	Inhalation				33,3 mg/m <sup>3</sup>
Benzyl benzoate	Inhalation		102 mg/m <sup>3</sup>		5,1 mg/m <sup>3</sup>
	Dermal				2,6 mg/kg bw/day
Linalool	Inhalation		16,5 mg/m <sup>3</sup>		2,8 mg/m <sup>3</sup>
	Dermal	3 mg/kg bw	5 mg/kg bw	3 mg/kg bw/day	2,5 mg/kg bw/day
alpha-Hexylcinnamaldehyde	Inhalation	6,28 mg/m <sup>3</sup>			0,078 mg/m <sup>3</sup>
	Dermal	0,525 mg/kg bw		0,525 mg/kg bw/day	18,2 mg/kg bw/day

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Propyleneglycol	Inhalation			10 mg/m <sup>3</sup>	50 mg/m <sup>3</sup>
d-Limonene	Inhalation				8,33 mg/m <sup>3</sup>
	Oral				4,76 mg/kg bw/day
Benzyl benzoate	Inhalation		25 mg/m <sup>3</sup>		1,25 mg/m <sup>3</sup>
	Dermal				1,3 mg/kg bw/day
	Oral		78 mg/kg bw		0,4 mg/kg bw/day
Linalool	Dermal	1,5 mg/kg bw	2,5 mg/kg bw	15 mg/kg bw/day	1,25 mg/kg bw/day

alpha-Hexylcinnamaldehyde	Inhalation		4,1 mg/m <sup>3</sup>		0,7 mg/m <sup>3</sup>
	Oral		1,2 mg/kg bw		0,2 mg/kg bw/day
	Inhalation	4,71 mg/m <sup>3</sup>			0,019 mg/m <sup>3</sup>
	Dermal	0,0787 mg/kg bw		0,0787 mg/kg bw/day	9,11 mg/kg bw/day
	Oral				0,056 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Propyleneglycol	Water	260 mg/l	26 mg/l	
	Sediment	572 mg/kg	57,2 mg/kg	
	Intermittent water			183 mg/l
	STP			20000 mg/l
	Soil			50 mg/kg
d-Limonene	Oral			1133 mg/kg food
	Water	0,0054 mg/l	0,0005 mg/l	
	Sediment	1,32 mg/kg	0,13 mg/kg	
	STP			1,8 mg/l
	Soil			0,262 mg/kg
Benzyl benzoate	Oral			3,33 mg/kg food
	Water	0,017 mg/l	0,002 mg/l	
	Sediment	10,66 mg/kg	1,07 mg/kg	
	STP			100 mg/l
	Soil			2,12 mg/kg
Linalool	Water	0,2 mg/l	0,02 mg/l	
	Sediment	2,22 mg/kg	0,222 mg/kg	
	Intermittent water			2 mg/l
	STP			10 mg/l
	Soil			0,327 mg/kg
alpha-Hexylcinnamaldehyde	Oral			7,8 mg/kg food
	Water	0,03 mg/l	0,003 mg/l	
	Sediment	47,7 mg/kg	4,77 mg/kg	
	Intermittent water			0,03 mg/l
	STP			10 mg/l
4-tert-Butylcyclohexyl acetate	Soil			9,51 mg/kg
	Oral			6,6 mg/kg food
	Water	0,0053 mg/l	0,00053 mg/l	
	Sediment	2,01 mg/kg	0,21 mg/kg	
	Intermittent water			0,053 mg/l
	STP			12,2 mg/l
	Soil			0,42 mg/kg
	Oral			66,76 mg/kg food

## 8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection : Use of specific protective industrial clothing is not required under normal conditions of use. In case of large scale exposure wear suitable protective clothing, overalls or suit, and similar boots. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.

- Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
- Hand protection : Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: nitril. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.
- Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance	: Liquid.	
Colour	: Red.	
Odour	: Perfumed.	
Odour threshold	: Not known.	
pH	: 7	
Solubility in water	: Soluble.	
Partition coefficient (n-octanol/water)	: Not known.	Not measured. Not relevant for mixtures.
Flash point	: 99 °C	Closed cup.
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: 371 °C	
Boiling point/boiling range	: 188 °C	
Melting point/melting range	: -59 °C	
Explosive properties	: Not an explosive.	
Explosion limits (% in air)	: 2,6 - 12,6	
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: 43 mm <sup>2</sup> /sec	(1 mm <sup>2</sup> /sec = 1cSt)
Viscosity (40°C)	: > 20,5 mm <sup>2</sup> /sec	
Vapour pressure (20°C)	: 20 Pa	
Vapour density (20°C)	: > 1	(air = 1)
Relative density (20°C)	: 1,035 g/ml	
Evaporation rate	: Not known.	(n-butyl acetate = 1) Not relevant. Mixture of liquids and solids.

**9.2. Other information**

Other information : Not relevant.

**SECTION 10 STABILITY AND REACTIVITY****10.1. Reactivity**

Reactivity : See sub-sections below.

**10.2. Chemical stability**

Stability : Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactivity : No other hazardous reactions known.

**10.4. Conditions to avoid**

Conditions to avoid : See section 7.

**10.5. Incompatible materials**

Materials to avoid : Keep away from oxidizing agents.

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Not known.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

No toxicological research has been carried out on this product.

**Inhalation**

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: < 1 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness.
- Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

**Skin contact**

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : May produce an allergic reaction.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

**Eye contact**

- Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not met.

**Ingestion**

- Acute toxicity : Calculated LD50: > 2044 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Not expected to be an aspiration hazard. Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
- Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
d-Limonene	Genotoxicity - in vivo	> 2000 mg/kg bw/d	OECD 451	Rat
	NOEL (carcinogenicity, oral)	> 300 mg/kg bw/d		Rat

Linalool	Eye irritation	Non-irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 471	
	Skin sensitisation	10075 ug/cm <sup>2</sup>	OECD 429	Mouse
	NOAEL (development, oral)	600 mg/kg bw/d		Rat
	Skin irritation	Irritant	----	----
	LD50 (dermal)	> 2000 mg/kg bw	----	Rabbit
	LD50 (oral)	4400 mg/kg bw	----	Rat
	Genotoxicity - in vitro	Not genotoxic		
	NOAEL (oral)	150 mg/kg bw/d		Rat
	NOAEL (development, oral)	365 mg/kg bw/d	----	Rat
alpha-Hexylcinnamaldehyde	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation	12650 ug/cm <sup>2</sup>	OECD 429	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (fertility, oral)	500 mg/kg bw/d		Rat
	Skin irritation	Irritant	OECD 404	Rabbit
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 475	Mouse
	LD50 (dermal)	5610 mg/kg bw	----	Rabbit
	Skin irritation	Mildly irritant	----	Human
	LD50 (oral)	2790 mg/kg bw	----	Rat
	NOAEL (oral)	117 mg/kg bw/d	----	Rat
	NOAEL (development, oral)	100 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Eye irritation	Non-irritant		Rabbit
	NOAEL (oral) - estimate	30 mg/kg bw/d	Read across	Rat
LD50 (dermal)	> 3000 mg/kg bw	OECD 402	Rabbit	
LC50 (inhalation)	> 5000 mg/m <sup>3</sup>	OECD 403	Rat	
LD50 (oral)	> 2450 mg/kg bw	OECD 401	Rat	
Skin sensitisation	2372 ug/cm <sup>2</sup>	OECD 429	Mouse	
Skin irritation	Moderately irritant	OECD 404	Rabbit	
NOAEL (dermal)	25 mg/kg bw/d		Rat	
LD50 (oral)	5000 mg/kg bw	----	Rat	
LD50 (dermal)	> 5000 mg/kg bw		Rabbit	
Eye irritation	Non-irritant		Rabbit	
Skin irritation	Non-irritant		Rabbit	
NOAEL (oral) - estimate	710 mg/kg bw/d	Read across		

## SECTION 12 ECOLOGICAL INFORMATION

### 12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 84 mg/l. Calculated EC50 (waterflea): 88 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment.

### 12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment.

### 12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

### 12.4. Mobility in soil

Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

### 12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

### 12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
d-Limonene	LC50 (fish)	0,720 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	0,36 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	> 92 %		
	NOEC (waterflea) - chronic	0,15 mg/l.d		Daphnia magna
d-Limonene	Log P(ow)	4,38		

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.

Additional warning : None.

Waste water discharge : Do not dispose into the environment, in drains or in water courses.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

## SECTION 14 TRANSPORT INFORMATION

### 14.1. UN number

UN nr. : None.

### 14.2. UN proper shipping name

Transport name : Not regulated.

### 14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : This product is not classified according to ADR/RID/ADN.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)  
Class : This product is not classified according to IATA.

**14.6. Special precautions for user**

Other information : Country specific variations may apply.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

**SECTION 15 REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Community regulations : Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.

**15.2. Chemical safety assessment**

Chemical safety  
assessment : Not applicable.

**SECTION 16 OTHER INFORMATION****16.1. Other information**

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (\*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
CLP	: Classification, Labeling & Packaging
CMR	: Carcinogenic, Mutagenic or toxic for Reproduction
EEC	: European Economic Community
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
IATA	: International Air Transport Association
IBC code	: International Bulk Chemical Code
IMDG	: International Maritime Dangerous Goods Code
LD50/LC50	: Lethal Dose/Concentration for 50% of a population
MAC	: Maximum Allowable Concentration
MARPOL	: International Convention for the Prevention of Pollution From Ships
NO(A)EL	: No Observed (Adverse) Effect Level
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent, Bioaccumulative and Toxic
PC	: Chemical product category
PT	: Product type
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail

STP : Sewage Treatment Plant  
SU : Sector of Use  
TWA/STEL : Time-Weighted Average/Short Term Exposure Limit  
UN : United Nations  
VOC : Volatile Organic Compounds  
vPvB : Very Persistent and Very Bioaccumulative

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Aquatic Chronic 3 : Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3 : Flammable liquid, category 3.  
Acute Tox. 4 : Acute toxicity, category 4.  
Skin Irrit. 2 : Skin irritation, category 2.  
Eye Irrit. 2 : Eye irritation, category 2.  
Skin Sens. 1/1A/1B : Skin sensitization, category 1/1A/1B.  
Asp. Tox. 1 : Aspiration hazard, category 1.  
Aquatic Chronic 1 : Hazardous to the aquatic environment — Chronic category 1.  
Aquatic Chronic 2 : Hazardous to the aquatic environment — Chronic category 2.  
Aquatic Acute 1 : Hazardous to the aquatic environment — Acute category 1.

Full text of H-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.  
H319 : Causes serious eye irritation.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H411 : Toxic to aquatic life with long lasting effects.

Advice on any training appropriate for workers: none.

Number format : ", " used as decimal separator.

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End of safety data sheet.