

## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

### SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : BLACK ICE

Product code : R47446.

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

Blend of odoriferous substances.

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

Registered company name : PARF'EX.

Address : P.A. Les Bois de Grasse, 51, avenue Louison Bobet.06130.Grasse .France.

Telephone : +33 (0) 4 92 42 42 52. Fax : +33 (0) 4 93 70 33 99.

e-mail : contact@parfex.com

Website : www.parfex.com

Opening hours : 8H00 - 12H00 / 14H00 - 17H00

#### 1.4. Emergency telephone number : +33 (0) 4 92 42 42 61.

Association/Organisation : PARF'EX .

### 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 1B (Skin Sens. 1B, H317).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

This mixture 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



GHS09

Signal Word :

WARNING

Product identifiers :

EC 259-174-3

EC 227-813-5

EC 202-983-3

EC 251-020-3

EC 915-617-9

EC 207-431-5

OTNE [1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTALENYL)-ETHANONE

D-LIMONENE

ALPHA-HEXYL CINNAMIC ALDEHYDE (HCA)

ACETYL CEDRENE

REACTION MASS / LYRAL MULTICONSTITUENT

EUCALYPTOL

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EC 203-375-0 PINENES (ALPHA OR BETA)  
 EC 203-518-7 CITRONELLOL  
 EC 226-394-6 HYDROXYCITRONELLAL  
 EC 201-289-8 CITRAL  
 EC 203-341-5 P-TERT-BUTYL-ALPHA-METHYLHYDROCINNAMIC ALDEHYDE (LILIAL)  
 EC 268-264-1 GERANYL ACETATE  
 EC 201-941-1 2,4-DIMETHYL-3-CYCLOHEXEN-1-CARBOXALDEHYDE (SEE FOOTNOTE 3) X  
 MENTHONE

## Hazard statements :

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H411 Toxic to aquatic life with long lasting effects.

## Precautionary statements - Prevention :

P261 Avoid breathing gas or vapours.  
 P264 Wash the skin thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Precautionary statements - Response :

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

## Precautionary statements - Disposal :

P501 Dispose of the contents/container at an approved waste disposal facility.

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq$  0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 18479-58-8 EC: 242-362-4 REACH: 01-2119457274-37-xxxx DIMYRCETOL (2,6-DIMETHYL-7-OCTEN-2-OL)	GHS07 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319		10 $\leq$ x % < 25
CAS: 115-95-7 EC: 204-116-4 REACH: 01-2119454789-19-xxxx LINALYL ACETATE	GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315		10 $\leq$ x % < 25
CAS: 78-70-6 EC: 201-134-4 REACH: 01-2119474016-42-xxxx LINALOOL	GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315		2.5 $\leq$ x % < 10
CAS: 54464-57-2 EC: 259-174-3 OTNE [1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTALENYL)-ETHANONE	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		2.5 $\leq$ x % < 10
CAS: 5989-27-5 EC: 227-813-5 REACH: 01-2119529223-47-xxxx D-LIMONENE	GHS08, GHS02, GHS07, GHS09 Dgr Asp. Tox. 1, H304 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		2.5 $\leq$ x % < 10

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CAS: 101-86-0 EC: 202-983-3 REACH: 01-2119533092-50-xxxx  ALPHA-HEXYL CINNAMIC ALDEHYDE (HCA)	GHS07, GHS09 Wng Skin Sens. 1B, H317 Aquatic Chronic 2, H411		2.5 <= x % < 10
INDEX: 603-212-00-7 CAS: 1222-05-5 EC: 214-946-9 REACH: 01-2119488227-29-xxxx  1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8,8-HEXAMETHYLCYCLOPENTA-GAMMA-2-BENZOPYRAN (HHCB)	GHS09 Wng Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		2.5 <= x % < 10
CAS: 32388-55-9 EC: 251-020-3  ACETYL CEDRENE	GHS07, GHS09 Wng Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		1 <= x % < 2.5
CAS: 1335-46-2 EC: 215-635-0 REACH: 01-2119471851-35-xxxx  METHYL IONONE (MIXTURE OF ISOMERS)	GHS07, GHS09 Wng Skin Irrit. 2, H315 Aquatic Chronic 2, H411 Eye Irrit. 2, H319		1 <= x % < 2.5
CAS: 67634-00-8 EC: 266-803-5  ALLYL AMYL GLYCOLATE	GHS07 Wng Acute Tox. 4, H302 Skin Irrit. 2, H315		1 <= x % < 2.5
EC: 915-617-9 REACH: 01-2119971808-21-xxxx  REACTION MASS / LYRAL MULTICONSTITUENT	GHS07 Wng Skin Sens. 1, H317		1 <= x % < 2.5
CAS: 470-82-6 EC: 207-431-5  EUCALYPTOL	GHS02, GHS07 Wng Flam. Liq. 3, H226 Skin Sens. 1B, H317		1 <= x % < 2.5
PINENES (ALPHA OR BETA)	GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317		0 <= x % < 1
CAS: 106-22-9 EC: 203-375-0 REACH: 01-2119453995-23-xxxx  CITRONELLOL	GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1B, H317		0 <= x % < 1
CAS: 107-75-5 EC: 203-518-7 REACH: 01-2119973482-31-xxxx  HYDROXYCITRONELLAL	GHS07 Wng Eye Irrit. 2, H319 Skin Sens. 1B, H317		0 <= x % < 1
CAS: 5392-40-5 EC: 226-394-6 REACH: 01-2119462829-23-xxxx  CITRAL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319		0 <= x % < 1
CAS: 80-54-6 EC: 201-289-8 REACH: 01-2119907954-30-xxxx  P-TERT-BUTYL-ALPHA-METHYLHYDROCINNAMIC ALDEHYDE (LILIAL)	GHS08, GHS07, GHS09 Wng Acute Tox. 4, H302 Repr. 2, H361 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[2]	0 <= x % < 1
CAS: 105-87-3 EC: 203-341-5 REACH: 01-2119973480-35-xxxx  GERANYL ACETATE	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412		0 <= x % < 1

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CAS: 68039-49-6 EC: 268-264-1 2,4-DIMETHYL-3-CYCLOHEXEN-1-CARBOXALD EHYDE (SEE FOOTNOTE 3) X	GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412		0 <= x % < 1
CAS: 128-37-0 EC: 204-881-4 REACH: 01-2119480433-40-xxxx BUTYLATED HYDROXYTOLUENE	GHS09 Wng Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[1]	0 <= x % < 1
CAS: 89-80-5 EC: 201-941-1 MENTHONE	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317		0 <= x % < 1

**Information on ingredients :**

- [1] Substance for which maximum workplace exposure limits are available.  
[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

**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 soft, clean water for 15 minutes holding the eyelids open.  
If there is any redness, pain or visual impairment, consult an ophthalmologist.  
Remove contact lenses.

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

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.  
Remove at once any soiled garment. Wash at once and abundantly in water during at least 15 minutes.

**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.  
Keep the person exposed at rest. Do not force vomiting.  
Seek medical attention immediately, showing the label.  
If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show 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****Suitable methods of extinction**

In the event of a fire, use :  
- sprayed water or water mist

**Unsuitable methods of extinction**

In the event of a fire, do not use :  
- water jet

**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)

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- carbon dioxide (CO2)

### 5.3. Advice for firefighters

No data available.

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## 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.

#### 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

Take off by means of dry absorber (sand, sawdust, universal absorber). Avoid spilling.

### 6.4. Reference to other sections

No data available.

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## SECTION 7 : HANDLING AND STORAGE

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

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

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

#### Fire prevention :

Handle in well-ventilated areas.

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 mixture.

Packages which have been opened must be reclosed carefully and stored in an upright position.

#### Prohibited equipment and procedures :

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

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

No data available.

#### Storage

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Store products in tightly closed, original containers in cool, dry place.

#### Packaging

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

### 7.3. Specific end use(s)

No data available.

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## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

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CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
128-37-0	2 mg/m3	-	-	-	IVA	
- France (INRS - ED984 :2008) :						
CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
128-37-0	-	10	-	-	-	-
- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :						
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
128-37-0	10 mg/m3	-	-	-	-	

**8.2. Exposure controls****Personal protection measures, such as personal protective equipment**

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**

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

Use appropriate gloves.

Wash hands before breaks and at once after manipulation of the product.

**- 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 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 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****General information :**

Physical state : Fluid liquid.

**Important health, safety and environmental information**

pH : Not relevant.  
Boiling point/boiling range : Not relevant.  
Flash Point : 75.00 °C.  
Vapour pressure (50 °C) : Not relevant.  
Density : < 1  
Water solubility : Insoluble.  
Viscosity: v < 7 mm<sup>2</sup>/s (40 °C)  
Melting point/melting range : Not relevant.  
Self-ignition temperature : Not relevant.  
Decomposition point/decomposition range : Not relevant.

**9.2. Other information**

Odour Aromatic fougere  
Color Very light yellow to yellow

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Specific Gravity from 0.872 to 0.902  
Refractive index from 1.448 to 1.478

**SECTION 10 : STABILITY AND REACTIVITY**

Stable in the conditions of storage above.

No dangerous reaction known at the conditions recommended for use and storage, during the period of one year recommended.

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

No data available.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Avoid temperatures close to flashpoint.

Do not warm the closed bowls.

Avoid the contact with oxidizing agents.

**10.5. Incompatible materials**

No data available.

**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 toxicological effects**

No data is available regarding the preparation itself.

However, exposure of this preparation could lead to health problems for especially sensitive subjects or due to unforeseeable reasons.

**11.1.1. Substances****Acute toxicity :**

MENTHONE (CAS: 89-80-5)

Oral route : LD50 = 2500 mg/kg

2,4-DIMETHYL-3-CYCLOHEXEN-1-CARBOXALDEHYDE (SEE FOOTNOTE 3) X (CAS: 68039-49-6)

Oral route : LD50 = 2500 mg/kg

Dermal route : LD50 = 2500 mg/kg

P-TERT-BUTYL-ALPHA-METHYLHYDROCINNAMIC ALDEHYDE (LILIAL) (CAS: 80-54-6)

Oral route : LD50 = 1390 mg/kg

CITRONELLOL (CAS: 106-22-9)

Oral route : LD50 = 3450 mg/kg

Dermal route : LD50 = 2650 mg/kg

EUCALYPTOL (CAS: 470-82-6)

Oral route : LD50 = 2480 mg/kg

ALLYL AMYL GLYCOLATE (CAS: 67634-00-8)

Oral route : LD50 = 730 mg/kg

ALPHA-HEXYL CINNAMIC ALDEHYDE (HCA) (CAS: 101-86-0)

Oral route : LD50 = 3100 mg/kg

LINALOOL (CAS: 78-70-6)

Oral route : LD50 = 2790 mg/kg

**11.1.2. Mixture**

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No toxicological data available for the mixture.

**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 128-37-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

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**SECTION 12 : ECOLOGICAL INFORMATION**

Toxic 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. Mixtures**

No aquatic toxicity data available for the mixture.

**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. Other adverse effects**

No data available.

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**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture 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, preferably 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.

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**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

**14.1. UN number**

3082

**14.2. UN proper shipping name**

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(otne [1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphtalenyl)-ethanone])

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

- Classification :



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**14.4. Packing group**

III



**BLACK ICE - R47446****14.5. Environmental hazards**

- Environmentally hazardous material :

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 375 601	E1	3	E

Not subject to this regulation if Q ≤ 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	9	-	III	5 L	F-A,S-F	274 335 969	E1

Not subject to this regulation if Q &lt; 10 ml / 10 g (IMDG 3.3.1 - DS 335)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158 A197	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197	E1

Not subject to this regulation if Q ≤ 5 l / 5 kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available.

**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. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

**- Container information:**

No data available.

**- Particular provisions :**

No data available.

**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.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

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 mixture 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.
H319	Causes serious eye irritation.

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H361	Suspected of damaging fertility or the unborn child .
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.

**Abbreviations :**

CMR: Carcinogenic, mutagenic or reprotoxic.

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

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.