

**1 SECTION 1: Identification of the substance/mixture and of the company****1.1 Product identifier**

RUCK scented candle, 145 g, Desert – Clove & Patchouli

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

Scented candle

**Uses advised against**

The product is only to be used for its intended purpose.

**1.3 Details of the supplier providing the safety data sheet, manufacturer/supplier:**

HELLMUT RUCK GmbH

Daimlerstr. 23

75305 Neuenbürg, Germany

Tel. +49 (0)7082 944 20

Fax +49 (0)7082 944 22 22

E-mail: kontakt@hellmut-ruck.de

**1.4 Emergency number:**

VIZ Universitätsklinikum Freiburg [University Hospital of Freiburg]: Phone (24 hrs.) +49 (0)761 19240

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## 2 SECTION 2: Possible dangers

### 2.1 Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Skin Sens. 1; H317

Aquatic Chronic 2; H411

Wording of the hazard statements: see SECTION 16.

### 2.2 Labelling elements

#### Regulation (EC) No 1272/2008

#### Hazard-determining components for labelling

CARYOPHYLLENE, LINALOOL, LINALYL ACETATE, CITRONELLOL, GERANIOL, EUGENOL, PINENE, LONGIFOLENE, TRANS-ISOEUGENOL, ISOEUGENOL

**Signal word:** Attention



**Pictograms:**

#### Hazard warnings

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long-lasting effects.

#### Safety instructions

P101 If medical advice is required, have the packaging or label at hand.

P102 Keep out of the reach of children.

P280 Wear protective gloves and eye/face protection.

P302+P352 In case of contact with skin: Wash with plenty of water.

P333+P313 In case of skin irritation or rash: Seek medical advice/assistance.

P501 Do not dispose of contents with household waste and dispose of in accordance with regional/national regulations.

**Note on labelling**

The candle is marked according to the regulations of DIN EN 15494 / DIN EN 16740.

**2.3. Other hazards**

No harmful effects are expected if used correctly and as intended. The liquid melted product has high temperatures and thus presents a burn hazard in case of eye and skin contact.

The product may cause eye and skin irritation if used improperly and in high concentrations of smoke.

The ingredients in this mixture do not meet the criteria for classification as PBT or vPvB.

This product does not contain any substance that exhibits endocrine disrupting properties towards humans as no ingredient meets the criteria.

This product does not contain any substance exhibiting endocrine disrupting properties towards non-target organisms as no ingredient fulfils the criteria.

**3 SECTION 3: Composition/information on ingredients****3.2 Mixtures**

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**Hazardous ingredients**

CAS no	Substance name			Percentage
	EC no	Index no	REACH no	
	Classification (Regulation (EC) No 1272/2008)			
87-44-5	Caryophyllene (CARYOPHYLLENE)			1 - < 2.5 %
	201-746-1		01-2120745237-53	
	Skin Sens. 1, Asp. Tox. 1; H317 H304			
80-26-2	p-menth-1-en-8-yl acetate			1 - < 2.5 %
	201-265-7		01-2119980733-29	
	Aquatic Chronic 2; H411			
78-70-6	Linalool; 3,7-dimethyl-1,6-octadien-3-ol; DL-linalool (LINALOOL)			1 - < 2.5 %
	201-134-4	603-235-00-2	01-2119474016-42	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317			
115-95-7	Linalyl acetate (LINALYL ACETATE)			0.1 - < 1 %
	204-116-4		01-2119454789-19	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317			
469-61-4	[3R-(3a,3aB,7B,8aa)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen (alpha-CEDRENE)			0.1 - < 1 %
	207-418-4			
	Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H304 H400 H410			
106-22-9	Citronellol (CITRONELLOL)			0.1 - < 1 %
	203-375-0		01-2119453995-23	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317			
106-24-1	Geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (GERANIOL)			0.1 - < 1 %
	203-377-1	603-241-00-5	01-2119552430-49	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H315 H318 H317			
97-53-0	Eugenol (EUGENOL)			0.1 - < 1 %
	202-589-1		01-2119971802-33	
	Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1B; H302 H319 H317			
546-28-1	[3R-(3a,3aB,7B,8aa)]-octahydro-3,8,8-trimethyl-6-methylen-1H-3a,7-methanoazulen			0.1 - < 1 %
	208-898-8			
	Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H304 H400 H410			
80-56-8	Pin-2(3)-en (PINENE)			0.1 - < 1 %
	201-291-9		01-2119519223-49	
	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H302 H315 H317 H304 H400 H410			
475-20-7	[1S-(1a,3aB,4a,8aB)]-decahydro-4,8,8-trimethyl-9-methylen-1,4-methanoazulen (LONGIFOLENE)			0.1 - < 1 %
	207-491-2		01-2120735663-52	
	Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H315 H317 H304 H400 H410			
5932-68-3	(E)-2-methoxy-4-(prop-1-enyl)phenol (trans-ISOEUGENOL)			0.1 - < 1 %
	227-678-2	604-094-00-X	01-2120223682-61	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1A, STOT SE 3; H332 H312 H302 H315 H319 H317 H335			
97-54-1	Isoeugenol (ISOEUGENOL)			< 0.1 %
	202-590-7	604-094-00-X		
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1A; H312 H302 H315 H319 H317			

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Wording of H-phrases and EUH-phrases: see section 16.

**Specific concentration limits, M-factors and ATE**

CAS no	EC no	Substance name	Percentage
		Specific concentration limits, M-factors and ATE	
469-61-4	207-418-4	[3R-(3a,3aB,7B,8aa)] -2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen (alpha-CEDRENE)	0.1 - < 1%
		Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	
97-53-0	202-589-1	Eugenol (EUGENOL)	0.1 - < 1%
		oral: ATE = 500 mg/kg	
546-28-1	208-898-8	[3R-(3a,3aB,7B,8aa)] -Octahydro-3,8,8-trimethyl-6-methylen-1H-3a,7-methanoazulen	0.1 - < 1%
		Aquatic Chronic 1; H410: M=10	
80-56-8	201-291-9	Pin-2(3)-en (PINENE)	0.1 - < 1%
		oral: ATE = 500 mg/kg	
5932-68-3	227-678-2	(E)-2-methoxy-4-(prop-1-enyl)phenol (trans-ISOEUGENOL)	0.1 - < 1%
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1.5 mg/l (dusts or mists); dermal: ATE= 1100 mg/kg; oral: ATE = 500 mg/kg Skin Sens. 1A; H317: >= 0.01 - 100	
97-54-1	202-590-7	Isoeugenol (ISOEUGENOL)	< 0.1%
		dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg Skin Sens. 1A; H317: >= 0.01 - 100	

## 4 SECTION 4: First aid measures

### 4.1 Description of the first aid measures

#### General notes

First aider: Pay attention to self-protection!

#### After inhalation

If irritation or allergic reactions occur during use or handling of the product (especially if large quantities are inhaled): Immobilise the affected person and call a doctor immediately.

#### After skin contact

Immediately remove soiled, soaked clothing.

In case of skin contact with melted product:

1. cool quickly with cold water (do not apply ice),
2. burns from melted product must be treated medically.

After contact with skin, wash immediately with plenty of soap and water. Consult a doctor in case of skin irritation.

#### After eye contact

Remove contact lenses. In case of contact with eyes, rinse immediately with running water for 10 to 15 minutes with the eyelids open. If symptoms occur or persist, consult an ophthalmologist.

#### After swallowing

Rinse out mouth, spit out liquid again. DO NOT induce vomiting. Drink plenty of water in small sips (diluting effect).

Consult a doctor if symptoms persist.

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

Possible irritation on contact with eyes and possible irritation / allergic reaction on contact with skin. Burns from improper use.

### 4.3 Indications for immediate medical help or special treatment

Symptomatic treatment.

## 5 SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Adapt extinguishing measures to the surroundings. Water mist. Foam. BC extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

Full jet of water.

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

In the event of fire, the following may be produced: carbon monoxide, carbon dioxide. The product is flammable and can fuel a fire.

### 5.3 Advice for firefighters

In case of fire: Use self-contained breathing apparatus. Protective clothing.

#### Additional information

Knock down gases/vapours/mist with water spray.

Collect contaminated extinguishing water separately. Do not allow to enter drains or water courses. Use water spray to protect persons and to cool containers in the danger zone.

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## 6 SECTION 6: Accidental release measures

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

#### General notes

Ensure sufficient ventilation. Do not inhale gas/smoke/vapour/aerosol. Avoid contact with skin, eyes and clothing.

In case of leakage of large quantities: Wear personal protective equipment.

### 6.2 Environmental protection measures

Do not allow to enter drains or water courses. Do not allow to enter the subsoil/soil.

### 6.3 Methods and material for retention and cleaning

#### For retention

Retain mechanically. Handle the collected material according to the Disposal section.

#### For cleaning

Thoroughly clean soiled objects and floor in compliance with environmental regulations.

### 6.4 Reference to other sections

Safe handling: see section 7

Personal protective equipment: see section 8

Disposal: see section 13

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## **7 SECTION 7: Handling and storage**

### **7.1 Protective measures for safe handling**

#### **Notes on safe handling**

When used in confined, warm spaces: Ensure sufficient ventilation.

At the workplace (during production / transferring from one container to another): Wear personal protective equipment.

Do not allow to enter drains; waste and containers must be disposed of in a safe manner.

#### **Notes on fire and explosion protection**

The product is flammable and can fuel a fire.

#### **Notes on general hygiene measures at the workplace**

Avoid contact with skin, eyes and clothing. Immediately remove soiled, soaked clothing. Preventive skin protection with skin protection ointment. Wash hands and face after finishing work. Do not eat or drink at work.

#### **Further information on handling**

Do not eat, drink or smoke at work.

### **7.2 Conditions for safe storage, taking chemical incompatibilities into account**

#### **Requirements for storage rooms and containers**

Store only in the original container in a cool, well-ventilated place.

#### **Information on storing together with other items**

Keep away from food, drink and animal feed. Store separately from oxidising agents.

#### **Further information on storage conditions**

Protect from sunlight and heat sources. Avoid ignition sources. Storage temperature: 10-30 °C

Storage class according to TRGS [Technical Rules for Hazardous Substances] 510: 11 (combustible solids that cannot be assigned to any of the above storage categories)

### **7.3 Specific end uses**

Scented candle

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## 8 SECTION 8: Limitation and monitoring of exposure/personal protective equipment

### 8.1 Parameters to be monitored

#### Additional notes on limit values

No further exposure limit values are currently available.

### 8.2 Limitation and monitoring of exposure

#### Suitable technical control devices

Sufficient ventilation must be ensured.

#### Individual protective measures, for example personal protective equipment

##### Eye/face protection

Not necessary under normal conditions of use.

At the workplace (during production / transferring from one container to another): Safety goggles with side protection

##### Hand protection

No hand protection is required for the recommended use as there should be no contact with the skin when used as intended.

At the workplace (during production / transferring from one container to another):

Protective gloves according to EN 374. Glove material: Nitrile rubber / NBR (layer thickness  $\geq 0.5$ mm, penetration time:  $>8$ h)

When handling chemical agents, only chemical protective gloves with a CE mark, including a four-digit test number, may be worn. It is recommended to check the chemical resistance of the above-mentioned protective gloves for specific applications with the glove manufacturer.

##### Body protection

Not necessary under normal conditions of use.

At the workplace (during production / transferring from one container to another): Protective clothing.

##### Breathing protection

Not necessary under normal conditions of use. At the workplace (during production / transferring from one container to another): Limit value exceeded: Gas filter device (DIN EN 141).

## 9 SECTION 9: Physical and chemical properties

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

Physical state:	solid
Colour:	yellow brown
Odour:	characteristic
Melting point/freezing point:	No data available.
Boiling point or initial boiling point and boiling range:	No data available.
Flammability:	No data available.
Lower explosion limit:	No data available.
Upper explosion limit:	No data available.
Flash point:	No data available.
Ignition temperature:	No data available.
Decomposition temperature:	No data available.
pH value:	No data available.
Kinematic viscosity:	No data available.
Water solubility:	No test required as the substance is known to be insoluble in water.
Solubility in other solvents	No data available.
n-octanol-water partition coefficient:	No data available.
Vapour pressure:	No data available.
Density:	No data available.
Relative vapour density:	No data available.

### 9.2 Other information

#### Information on physical hazard classes

Explosion hazards:	No data available.
Autoignition temperature of gas:	No data available.
Oxidising properties:	No data available.

**Other safety-related parameters**

Solvent-separation test:	No data available.
Solidification point:	No data available.
Dynamic viscosity:	No data available.
Run-out time:	No data available.

**Further information**

No data available.

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

No hazardous reactivity under normal ambient conditions.

**10.2 Chemical stability**

The product is stable under normal ambient conditions (room temperature).

**10.3 Possibility of hazardous reactions**

No hazardous reactions are to be expected when used as intended.

**10.4 Conditions to avoid**

During storage and production: Avoid contact with strong heat sources and open flames.

**10.5 Incompatible materials**

Strong oxidising agents.

**10.6 Hazardous decomposition products**

In the event of fire, the following may be produced: carbon monoxide, carbon dioxide.

## 11 SECTION 11: Toxicological information

### 11.1 Information on hazard classes within the meaning of Regulation (EC) No 1272/2008

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS no	Designation					
	Exposure route	Dose		Species	Source	Method
97-53-0	Eugenol (EUGENOL)					
	oral	ATE mg/kg	500			
80-56-8	Pin-2(3)-en (PINENE)					
	oral	ATE mg/kg	500			
5932-68-3	(E)-2-methoxy-4-(prop-1-enyl)phenol (trans-ISOEUGENOL)					
	oral	ATE mg/kg	500			
	dermal	ATE mg/kg	1100			
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1.5 mg/l			
97-54-1	Isoeugenol (ISOEUGENOL)					
	oral	ATE mg/kg	500			
	dermal	ATE mg/kg	1100			

#### Irritant and corrosive effect

Based on available data, the classification criteria are not met.

The product may cause eye and skin irritation if used improperly and in high concentrations of smoke.

#### Sensitising effects

May cause an allergic skin reaction. (Caryophyllene (CARYOPHYLLENE); Linalool;

3,7-dimethyl-1,6-octadien-3-ol; DL-linalool (LINALOOL); linalyl acetate (LINALYL ACETATE); citronellol (CITRONELLOL); geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (GERANIOL); eugenol (EUGENOL); pin-2(3)-en (PINENE); [1S-(1a,3aβ,4a,8aβ)]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulen (LONGIFOLENE); (E)-2-methoxy-4-(prop-1-enyl)phenol (trans-ISOEUGENOL); isoeugenol (ISOEUGENOL))

#### Carcinogenic, mutagenic and toxic for reproduction effects

Based on available data, the classification criteria are not met.

**Specific target organ toxicity with single exposure**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity in case of repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2 Information on other hazards****Endocrine disrupting properties**

The ingredients in this mixture do not meet the criteria for classification as PBT or vPvB.

**12 SECTION 12: Environmental information****12.1 Toxicity**

Toxic to aquatic life with long-lasting effects.

**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 the PBT and vPvB assessment**

The substances in the mixture do not fulfil the PBT/vPvB criteria according to REACH, Annex XIII.

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**12.6 Endocrine disrupting properties**

This product does not contain any substance exhibiting endocrine disrupting properties towards non-target organisms as no ingredient fulfils the criteria.

**12.7 Other adverse effects**

No data available.

**13 SECTION 13: Notes on disposal****13.1 Waste treatment process****Recommendations for disposal**

Do not dispose of product residues with household waste and do not empty into the sink or toilet. Dispose of contents/container at an approved pollutant collection point.

The allocation of waste code numbers/waste designations is to be carried out in accordance with the Waste Classification Ordinance on a sector- and process-specific basis.

**Waste code - uncleaned packaging**

150101 Packaging waste, absorbents, wiping cloths, filter materials and protective clothing (N.O.S.); packaging (including separately collected municipal packaging waste); paper and paperboard packaging

**Disposal of uncleaned packaging and recommended cleaning agents**

Contaminated packaging shall be treated in the same way as the substance. Recommended cleaning agent: water (with detergent)

**14 SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number or ID number:** UN 3077

**14.2. UN proper shipping name:** Environmentally hazardous substance, solid, N.O.S. (p-menth-1-en-8-yl acetate)

**14.3. Transport hazard classes:** 9

**14.4. Packaging group:** III

Hazard label: 9 

Classification code: M7

Special regulations: 274 335 375 601

Limited Quantity (LQ): 5 kg

Exempted quantity: E1

Transport category: 3

Hazard number: 90

Tunnel restriction code: -

**Inland waterway transport (ADN)**

**14.1. UN number or ID number:** UN 3077

**14.2. UN proper shipping name:** Environmentally hazardous substance, solid, N.O.S. (p-menth-1-en-8-yl acetate)

**14.3. Transport hazard classes:** 9

**14.4. Packaging group:** III

Hazard label: 9 

Classification code: M7

Special regulations: 274 335 375 601

Limited Quantity (LQ): 5 kg

Exempted quantity: E1

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**Sea transport (IMDG)**

<b>14.1. UN number or ID number:</b>	UN 3077
<b>14.2. UN proper shipping name:</b>	Environmentally hazardous substance, solid, N.O.S. (p-menth-1-en-8-yl acetate)
<b>14.3. Transport hazard classes:</b>	9
<b>14.4. Packaging group:</b>	III
Hazard label:	9 
Special regulations:	274 335 966 967 969
Limited Quantity (LQ):	5 kg
Exempted quantity:	E1
EmS:	F-A, S-F

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	UN 3077
<b>14.2. UN proper shipping name:</b>	Environmentally hazardous substance, solid, N.O.S. (p-menth-1-en-8-yl acetate)
<b>14.3. Transport hazard classes:</b>	9
<b>14.4. Packaging group:</b>	III
Hazard label:	9 
Special regulations:	A97 A158 A179 A197 A215
Limited Quantity (LQ) Passenger:	30 kg G
Passenger LQ:	Y956
Exempted quantity:	E1
IATA packing instructions – Passenger:	956
IATA maximum quantity – Passenger:	400 kg
IATA packing instructions – Cargo:	956
IATA maximum quantity – Cargo:	400 kg

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**14.5 Environmental hazards**

Environmentally hazardous:

Yes



**14.6 Special precautions for the user**

There are no known special precautions.

**14.7 Carriage in bulk by sea in accordance with IMO instruments**

Not applicable.

**15 SECTION 15: Legislation**

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

**EU regulations**

Restrictions on use (REACH, Annex XVII):

Entry 3, Entry 75

Information on the SEVESO III Directive 2012/18/EU:

Not subject to the SEVESO III Directive

**Additional information**

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: not applicable.

Regulation (EC) No 648/2004 on detergents [Detergents Regulation]: not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable.

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mixture does not contain any chemicals subject to the export notification procedure (Annex I).

The mixture contains the following substances of very high concern (SVHC) included in the candidate list according to REACH, Article 59: none.

The mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to REACH, Annex XIV: none.

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**National regulations**

Water hazard class:	3 - highly hazardous to water
Status:	Classification of mixtures according to Annex 1, No 5 AwSV [Ordinance on Installations for Handling Substances Hazardous to Water]

**Additional information**

The national legal regulations must also be observed!

**15.2 Chemical safety assessment**

A chemical safety assessment has been carried out for the following substances in this mixture:

Caryophyllene (CARYOPHYLLENE)

Linalool; 3,7-dimethyl-1,6-octadien-3-ol; DL-linalool (LINALOOL) Linalyl acetate (LINALYL ACETATE)

Citronellol (CITRONELLOL)

Geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (GERANIOL) Eugenol (EUGENOL)

Pin-2(3)-en (PINENE)

[1S-(1a,3aβ,4a,8aβ)]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulen (LONGIFOLENE) (E)-2-methoxy-4-(prop-1-enyl)phenol (trans-ISOEUGENOL)

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## 16 SECTION 16: Other information

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) BImSchV: Bundesimmissionsschutzverordnung (Ordinance on the Implementation of the Federal Immission Control Act)

CAS: Chemical Abstracts Service

DIN: Standard of the German Institute for Standardisation EC: Effective concentration

EC: European Community EN: European Standard

IATA: International Air Transport Association

IBC code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods ISO: Standard of the International Standards Organization CLP: Classification, Labeling, Packaging

IUCLID: International Uniform Chemical Information Database LC: Lethal concentration

LD: Lethal dose

Log  $K_{ow}$ : octanol-water partition coefficient

MARPOL: Maritime Pollution Convention = Convention for the Prevention of Pollution from Ships

OECD: Organisation for Economic Co-operation and Development PBT: Persistent, bioaccumulative, toxic

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail TRGS: Technical rules for hazardous substances

UN: United Nations

VOC: Volatile Organic Compounds vPvB: very persistent and very bioaccumulable

AwSV: Ordinance on Installations for Handling Substances Hazardous to Water WGK: Water Hazard Class

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration TLV: Threshold Limiting Value

STOT: Specific Target Organ Toxicity

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**Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008**
**[CLP]**

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

**Wording of H-phrases and EUH-phrases (number and full text)**

H226	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes severe eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic organisms.
H410	Very toxic to aquatic life with long-lasting effects.
H411	Toxic to aquatic life with long-lasting effects.

**Further information**

The information given in this safety data sheet is intended to describe the product with regard to the necessary safety precautions. They are not intended to guarantee specific properties and are based on the current state of our knowledge.

The data of the hazardous ingredients were taken from the most recent safety data sheet of the supplier.

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