

according to UK REACH Regulation

## Bergolin LEP 6D2900, RAL7038

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

## 1.1. Product identifier

Bergolin LEP 6D2900, RAL7038

Product group: Produkt

UFI: NCY8-H9W8-4C87-VUMY

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

#### Use of the substance/mixture

pigmented topcoat

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

Company name: Bergolin GmbH & Co. KG

Street: Sachsenring 1

Place: D-27711 Osterholz-Scharmbeck

Telephone: +49 4795 95899 0
e-mail: info@bergolin.de
Contact person: Gefahrstoffmanagement

e-mail: sdb@bergolin.de Internet: www.bergolin.de

Responsible Department: Sicherheitsdatenblattverwaltung

**1.4. Emergency telephone** +49 4795 95899 0

**number:** Only available during office hours. (8-16 CET)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## **GB CLP Regulation**

Skin Sens. 1; H317 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

## 2.2. Label elements

## **GB CLP Regulation**

### Hazard components for labelling

tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate

fumarate

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

reaction mass of alpha-3-(3-(2H-benzotriazol-2-yl)

- -5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)
- -5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)
- -5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Poly(oxy-1,2-ethanediyl),a-hydro-w-hydroxy- Ethane-1,2-diol, ethoxylated

Signal word: Warning

## Pictograms:



## **Hazard statements**

H317 May cause an allergic skin reaction.



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H412 Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

# **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

## **Chemical characterization**

polyurethane system

## **Hazardous components**

CAS No	Chemical name					
	EC No	Index No	REACH No			
	Classification (GB CLP Regulation	1)				
136210-30-5	tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate					
	429-270-1		01-0000017556-64			
	Skin Sens. 1, Aquatic Chronic 3; F	H317 H412	•			
110-63-4	Butane 1.4-diol			1 - < 5 %		
	203-786-5		01-2119471849-20			
	Acute Tox. 4, STOT SE 3; H302 H	1336	•			
623-91-6	fumarate			1 - < 5 %		
	210-819-7					
	Acute Tox. 4, Skin Irrit. 2, Skin Se	7 H335				
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate					
	915-687-0		01-2119491304-40			
	Repr. 2, Skin Sens. 1, Aquatic Ac	7 H400 H410				
-	reaction mass of alpha-3-(3-(2H-benzotriazol-2-yl) -5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3- (2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl) -5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)					
	400-830-7	607-176-00-3				
	Skin Sens. 1, Aquatic Chronic 2; H317 H411					
25322-68-3	Poly(oxy-1,2-ethanediyl),a-hydro-w-hydroxy- Ethane-1,2-diol, ethoxylated					
	500-038-2					
	Skin Sens. 1, Aquatic Chronic 2; H317 H411					

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc.	Limits, M-factors and ATE		
136210-30-5	429-270-1	tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate	25 - < 30 %	
	dermal: LD50 :	= >2000 mg/kg; oral: LD50 = >2000 mg/kg		
110-63-4	203-786-5	Butane 1.4-diol	1 - < 5 %	
	inhalation: LC50 = >15 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 1530 mg/kg			
623-91-6	210-819-7	fumarate	1 - < 5 %	
	oral: ATE = 500 mg/kg			
1065336-91-5	915-687-0	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1 - < 5 %	
	dermal: LD50 = >3000 mg/kg; oral: LD50 = >3000 mg/kg			

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information**

Take off immediately all contaminated clothing and wash it before reuse. When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious place in recovery position and seek medical advice.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## After inhalation

Remove casualty to fresh air and keep warm and at rest. Call a doctor if you feel unwell.

If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

# After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner.

In case of skin irritation, consult a physician.

## After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

## After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.Let water be drunken in little sips (dilution effect).

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO2), Extinguishing powder, Water mist



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## Unsuitable extinguishing media

Full water jet

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

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Health hazard.

## 5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

In case of fire: Wear self-contained breathing apparatus. Special protective equipment for firefighters:

Protective clothing.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

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

#### General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid contact with skin, eyes and clothes.

Safe handling: see section 7

Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

## Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g.

sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

# 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

# 7.1. Precautions for safe handling

#### Advice on safe handling Solvent

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away. Use explosion-proof electrical equipment. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Use only antistatically equipped (spark-free) tools.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

## Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

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## Advice on general occupational hygiene

When using do not eat, drink, smoke, sniff.

Take off contaminated clothing and wash it before reuse.

Wash hands and face before breaks and after work and take a shower if necessary.

Make available sufficient washing facilities

# 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

## Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali

## Further information on storage conditions

Notice the directions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

## 7.3. Specific end use(s)

No information available.

## **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters



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# **DNEL/DMEL values**

CAS No Substance						
DNEL type	Exposure route	Effect	Value			
136210-30-5 tetraethyl N,N'-(methylenedicyclohexane-4,1-diy	tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate					
Worker DNEL, acute	inhalation	systemic	112 mg/m³			
Worker DNEL, long-term	inhalation	systemic	28 mg/m³			
Worker DNEL, long-term	dermal	systemic	4 mg/kg bw/day			
Consumer DNEL, acute	inhalation	systemic	4,8 mg/m³			
Consumer DNEL, acute	dermal	systemic	1,4 mg/kg bw/day			
Consumer DNEL, acute	oral	systemic	1,4 mg/kg bw/day			
Consumer DNEL, long-term	inhalation	systemic	4,8 mg/m³			
Consumer DNEL, long-term	dermal	systemic	1,4 mg/kg bw/day			
Consumer DNEL, long-term	oral	systemic	1,4 mg/kg bw/day			
110-63-4 Butane 1.4-diol						
Worker DNEL, long-term	inhalation	systemic	136 mg/m³			
Worker DNEL, acute	inhalation	systemic	958 mg/m³			
Worker DNEL, long-term	dermal	systemic	19 mg/kg bw/day			
Consumer DNEL, long-term	inhalation	systemic	29 mg/m³			
Consumer DNEL, acute	inhalation	systemic	340 mg/m³			
Consumer DNEL, long-term	dermal	systemic	8 mg/kg bw/day			
Consumer DNEL, long-term	oral	systemic	8 mg/kg bw/day			
1065336-91- Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate						
Consumer DNEL, long-term	oral	systemic	0,18 mg/kg bw/day			
Consumer DNEL, long-term	dermal	systemic	0,9 mg/kg bw/day			
Worker DNEL, long-term	dermal	systemic	1,8 mg/kg bw/day			
Consumer DNEL, long-term	inhalation	systemic	0,31 mg/m³			
Worker DNEL, long-term	inhalation	systemic	1,27 mg/m³			



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#### **PNEC values**

CAS No	Substance			
Environmental compartment		Value		
136210-30-5				
Freshwater		0,00013 mg/l		
Marine water		0,000013 mg/l		
Freshwater sed	diment	0,21 mg/kg		
Marine sedime	nt	0,02 mg/kg		
Soil		0,1 mg/kg		
110-63-4	0-63-4 Butane 1.4-diol			
Freshwater		0,813 mg/l		
Marine water		0,0813 mg/l		
Freshwater sediment		3,61 mg/kg		
Marine sediment		0,361 mg/kg		
Micro-organisms in sewage treatment plants (STP)		1554 mg/l		
Soil		0,244 mg/kg		
1065336-91- 5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	piperidyl		
Freshwater		0,0022 mg/l		
Marine water		0,00022 mg/l		
Marine sediment		0,11 mg/kg		
Soil		0,21 mg/kg		

## 8.2. Exposure controls

## Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

## Individual protection measures, such as personal protective equipment

## Eye/face protection

Wear eye protection/face protection.

Tightly sealed safety glasses.

## **Hand protection**

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: butyl rubber or Viton (necessarily consider the permanence of the material and See information supplied by the manufacturer.

Breakthrough time (maximum wearing time): \_\_\_\_min.

Use protective skin cream before handling the product.

# Skin protection

Only wear fitting, comfortable and clean protective clothing.

Wear anti-static footwear and clothing Suitable material: Natural fibres (e.g. cotton) / heat-resistant synthetic



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fibres.

#### Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: liquid Colour: grey

Odour: characteristic

Test method

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

230 °C

boiling range:

Flash point: > 100 °C DIN 53213

**Flammability** 

Solid/liquid: not determined
Gas: not determined

**Explosive properties** 

No information available.

Auto-ignition temperature: 370 °C

Self-ignition temperature

Solid: not determined Gas: not determined Decomposition temperature: not determined pH-Value: not determined

Flow time: > 100 6 DIN EN ISO 2431

(at 20 °C)

Water solubility: not determined

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Vapour pressure: <0,00002 hPa

(at 20 °C)

Density (at 20 °C): 1,4 g/cm³ DIN 53217

Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion: No data available

Oxidizing properties

No information available.

Other safety characteristics

Solvent separation test: <3 % (Land transport (ADR/RID))



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Solvent content: 3,47 %
Solid content: 96,53 %
Evaporation rate: not determined

**Further Information** 

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No information available.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

## 10.4. Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

## 10.5. Incompatible materials

Oxidizing agent, Strong acid, Strong alkali

## 10.6. Hazardous decomposition products

Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO2), Carbon monoxide

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

#### **Acute toxicity**

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

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
136210-30-5	tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate						
	oral	LD50 >20 mg/kg	000	Rat			
	dermal	LD50 >20 mg/kg	000	Rat			
110-63-4	Butane 1.4-diol						
	oral	LD50 153 mg/kg	30	Ratte			
	dermal	LD50 >20 mg/kg	000	Rat			
	inhalation (4 h) dust/mist	LC50 >15	5 mg/l	Rat			
623-91-6	fumarate						
	oral	ATE 500 mg/kg	0				
1065336-91- 5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate						
	oral	LD50 >30 mg/kg	000	Rat			
	dermal	LD50 >30 mg/kg	000	Rat			



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## Irritation and corrosivity

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

## Sensitising effects

May cause an allergic skin reaction. (tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate;

fumarate; Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl

- 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; reaction mass of alpha-3-(3-(2H-benzotriazol-2-yl)
- -5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)
- -5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)
- -5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene); Poly(oxy-1,2-ethanediyl),a-hydro-w-hydroxy-

Ethane-1,2-diol, ethoxylated)

## Carcinogenic/mutagenic/toxic effects for reproduction

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

## STOT-single exposure

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

# STOT-repeated exposure

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

#### **Aspiration hazard**

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

#### **Practical experience**

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.

Symptoms: Headache, Dizziness, Drowsiness, Unconsciousness

## After eye contact:

Irritating to eyes. (reversible.)

#### Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

## **Further information**

There are no data available on the mixture itself.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
136210-30-5	tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate						
	Acute fish toxicity	LC50	66 mg/l	96 h	Danio rerio		
	Acute crustacea toxicity	EC50 mg/l	88,6	48 h	Daphnia magna		
110-63-4	Butane 1.4-diol						
	Acute fish toxicity	LC50 mg/l	>30000	96 h	Pimephales promelas		
	Acute crustacea toxicity	EC50	813 mg/l	48 h	Daphnia magna		
1065336-91- 5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate						
	Acute fish toxicity	LC50	0,9 mg/l	96 h	Brachydanio rerio (zebra-fish)		



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## 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

No information available.

## 12.4. Mobility in soil

No information available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. not applicable

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

#### **Further information**

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains.

Recycle according to official regulations.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Hazardous waste according to Directive 2008/98/EC (waste framework directive).

## List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish

containing organic solvents or other hazardous substances; hazardous waste

## Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

# **SECTION 14: Transport information**

## Land transport (ADR/RID)

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

### Other applicable information (land transport)

No dangerous good in sense of this transport regulation.

## Marine transport (IMDG)

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

## Other applicable information (marine transport)

No dangerous good in sense of this transport regulation.

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

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

# Other applicable information (air transport)

No dangerous good in sense of this transport regulation.

## 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No



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## 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

# 14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

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

## **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): 3,472 % (48,602 g/l) 2004/42/EC (VOC): 3,472 % (48,602 g/l)

Information according to 2012/18/EU

(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

## National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

## 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 2,9,15.

### Abbreviations and acronyms

ADR - Accord européen relatif transport des merchandises dangereuses par route ATE - Acute Toxicity Estimate / Schätzwert akuter Toxizität; BCF - Biokonzentrationsfaktor (Bio-Concentration Factor); CAS - Chemical Abstracts Service; CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures; CMR - Carcinogenität, Mutagenität, Reproduktionstoxizität; ECHA - European Chemicals Agency / Europäische Chemikalienagentur (in Helsinki); EC50 - Effective Concentration 50%; ErC50 - Average specific growth rate; EINECS - European Inventory of Existing Commercial Chemical Substances; DNEL - "Derived No-Effect Level"; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods Code; LC50 - Lethal Concentration 50%; LD50 - Lethal dose 50%; NOAEC/L - No Observed Adverse Effect Concentration / Level; NOEC - No Observed Effect Concentration; OECD - Organization for Economic Cooperation and Development; PBT - Persistent, Bioaccumulative, Toxic (persistent, bioakkumulativ, toxisch); PNEC - Predicted No Effect Concentration; REACH - Registration, Evaluation and Authorization of Chemicals; RID - Règlement International concernant le transport de marchandises dangereuses par chemin de fer; SCL - Specific Concentration Level; STOT - Specific Target Organ Toxicity; SVHC - Stoff sehr hoher Besorgnis (Substance of Very High Concern); VOC - Volatile Organic Compounds; WGK - Wassergefährdungsklasse

Classification for mixtures and used evaluation method according to GB CLP Regulation

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Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

#### Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.



according to UK REACH Regulation

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H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
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.	
Further Information		

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)