

**SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006****PRIMESURF CTAC/ RSPO MB**

Version 2.0

Print Date 2024/01/17

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

Trade name : PRIMESURF CTAC/ RSPO MB

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

Use of the Substance/Mixture : Cosmetics, personal care products, Washing and cleaning products

Uses advised against : At this moment we have not identified any uses advised against

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

Company : Brenntag UK Limited  
Alpha House, Lawnswood Business Park  
GB LS16 6QY Leeds

Telephone : +44 (0) 113 3879 200  
Telefax : +44 (0) 113 3879 280  
E-mail address : msds@brenntag.co.uk

**1.4. Emergency telephone number**Emergency telephone number : Emergency only telephone number (open 24 hours):  
+44 (0) 1865 407333 (N.C.E.C. Culham)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation S.I. 2019/720 (GB CLP)****Regulation S.I. 2019/720 (GB CLP)**

Hazard class	Hazard category	Target Organs	Hazard statements
Skin corrosion	Sub-category 1B	---	H314
Serious eye damage	Category 1	---	H318
Short-term (acute) aquatic hazard	Category 1	---	H400
Long-term (chronic) aquatic hazard	Category 1	---	H410

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For the full text of the H-Statements mentioned in this Section, see Section 16.

### Most important adverse effects

Human Health	:	See section 11 for toxicological information.
Physical and chemical hazards	:	See section 9/10 for physicochemical information.
Potential environmental effects	:	See section 12 for environmental information.

## 2.2. Label elements

### Labelling according to Regulation S.I. 2019/720 (GB CLP)

Hazard symbols	:	 
Signal word	:	Danger
Hazard statements	:	H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	
Prevention	:	P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response	:	P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P391 Collect spillage.

### Hazardous components which must be listed on the label:

- Cetrimonium chloride

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### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

		Classification (Regulation S.I. 2019/720 (GB CLP))		
Hazardous components	Amount [%]	Hazard class / Hazard category	Hazard statements	
Cetrimonium chloride				
CAS-No.	: 112-02-7	> 28 - < 30	Acute Tox.4 Oral	H302
EC-No.	: 203-928-6		Skin Corr.1C	H314
EU REACH-	: 01-2119970558-23-xxxx		Eye Dam.1	H318
Reg. No.			Aquatic Acute1	H400
			Aquatic Chronic1	H410
		<hr/> M-Factor (Acute aquatic toxicity): 10		
		M-Factor (Chronic aquatic toxicity): 1		
		<hr/> Acute toxicity estimate		
		Acute oral toxicity: 1550 mg/kg		

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice : Take off all contaminated clothing immediately.

If inhaled : In case of accident by inhalation: remove casualty to fresh air

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	and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
In case of skin contact	: Wash off immediately with soap and plenty of water. Call a physician immediately.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.
Protection of First Aid Responders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: Extremely corrosive and destructive to tissue. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media	: Water spray, Dry powder, Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	: High volume water jet

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

Specific hazards during firefighting	: Incomplete combustion may form toxic pyrolysis products.
Hazardous combustion products	: Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ), nitrous gases, hydrogen chloride

### **5.3. Advice for firefighters**

Special protective	: In the event of fire, wear self-contained breathing
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equipment for firefighters	apparatus. Wear appropriate body protection (full protective suit)
Specific extinguishing methods	: Control smoke with water spray.
Further advice	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

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

Personal precautions	: Keep away unprotected persons. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. Prevent further leakage or spillage if safe to do so.
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#### **6.2. Environmental precautions**

Environmental precautions	: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.
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#### **6.3. Methods and materials for containment and cleaning up**

Methods and materials for containment and cleaning up	: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal. Ventilate the area.
Further information	: Treat recovered material as described in the section "Disposal considerations".

#### **6.4. Reference to other sections**

See Section 1 for emergency contact information.  
See Section 8 for information on personal protective equipment.  
See Section 13 for waste treatment information.

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

#### **7.1. Precautions for safe handling**

Advice on safe handling	: Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours or aerosol are released. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.
Hygiene measures	: Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area.

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Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.

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

- Requirements for storage areas and containers : Store in original container.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection. Keep away from open flames, hot surfaces and sources of ignition.
- Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. If frozen, thaw and mix thoroughly before use.
- Advice on common storage : Keep away from food, drink and animal feedingstuffs.
- Storage temperature : 10 - 40 °C

### 7.3. Specific end use(s)

- Specific use(s) : No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Other Occupational Exposure Limit Values

- (Additional) Information : Contains no substances with occupational exposure limit values.

Component:	Cetrimonium chloride	CAS-No. 112-02-7
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#### Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

- DNEL  
Workers, Long-term - systemic effects, Inhalation : 3.32 mg/m<sup>3</sup>
- DNEL  
Workers, Long-term - systemic effects, Skin contact : 4.7 mg/kg bw/day
- DNEL  
Consumers, Long-term - systemic effects, Inhalation : 0.98 mg/m<sup>3</sup>
- DNEL  
Consumers, Long-term - systemic effects, Skin contact : 2.83 mg/kg bw/day
- DNEL

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Consumers, Long-term - systemic effects, Ingestion : 2.83 mg/kg bw/day

### **Predicted No Effect Concentration (PNEC)**

Fresh water	: 0.42 µg/L
Marine water	: 0.042 µg/L
Intermittent releases	: 0.12 µg/L
Sewage treatment plant (STP)	: 0.4 mg/l
Fresh water sediment	: 9.27 mg/kg dry weight (d.w.)
Marine sediment	: 0.927 mg/kg dry weight (d.w.)
Soil	: 1.66 mg/kg dry weight (d.w.)
Secondary poisoning no potential for bioaccumulation	:

## **8.2. Exposure controls**

### **Appropriate engineering controls**

Refer to protective measures listed in sections 7 and 8.

### **Personal protective equipment**

#### *Respiratory protection*

Advice : In case of brief exposure or low pollution use breathing filter apparatus.  
In case of intensive or longer exposure use self-contained breathing apparatus.

#### *Hand protection*

Advice : Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Protective gloves should be replaced at first signs of wear.  
Insulated gloves.

#### *Eye protection*

Advice : Safety goggles  
Face-shield

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### *Skin and body protection*

Advice : Impervious clothing  
Chemical resistant apron

### **Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
If material reaches soil inform authorities responsible for such cases.

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

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

Form	: Liquid
Physical state	: liquid
Colour	: clear, colourless
Odour	: characteristic
Odour Threshold	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Self-Accelerating decomposition temperature (SADT)	: No data available
pH	: 4.0 - 6.0 Concentration: 10 %
Viscosity	



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Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available
Dissolution Rate	: No data available
Partition coefficient: n-octanol/water	: No data available
Dispersion Stability	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: No data available
Bulk density	: No data available
Relative vapour density	: No data available
Particle characteristics	
No data available	

### **9.2 Other information**

No data available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Advice : Stable under normal storage and temperature conditions

### **10.2. Chemical stability**

Advice : Stable under recommended storage conditions.

### **10.3. Possibility of hazardous reactions**

Hazardous reactions : Strong acids and strong bases Strong oxidizing agents

### **10.4. Conditions to avoid**

Conditions to avoid : HeatStrong oxidizing agentsKeep away from flames and sparks.Keep away from heat and sources of ignition.

### **10.5. Incompatible materials**

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Materials to avoid : Combustible materials, Flammable materials

### **10.6. Hazardous decomposition products**

Hazardous decomposition : Carbon dioxide (CO<sub>2</sub>), Nitrogen products

## **SECTION 11: Toxicological information**

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

#### **Data for the product**

##### **Acute toxicity**

###### **Oral**

Acute toxicity estimate : > 2000 mg/kg ) (Calculation method)

###### **Inhalation**

No data available

###### **Dermal**

No data available

##### **Irritation**

###### **Skin**

Result : Causes severe skin burns and eye damage.

###### **Eyes**

Result : Causes serious eye damage.

##### **Sensitisation**

No data available

##### **CMR effects**

###### **CMR Properties**

Carcinogenicity : No data available

Mutagenicity : No data available

Reproductive toxicity : No data available

##### **Specific Target Organ Toxicity**

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**Single exposure**

No data available

**Repeated exposure**

No data available

**Other toxic properties**
**Repeated dose toxicity**

No data available

**Aspiration hazard**

No data available

<b>Component:</b>	<b>Cetrimonium chloride</b>	<b>CAS-No. 112-02-7</b>
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**Acute toxicity**
**Oral**

LD50 : 1550 mg/kg (Rat, female) (OECD Test Guideline 401)

**Inhalation**

No data available

**Dermal**

No data available

**Irritation**
**Skin**

Result : (Rabbit; Causes severe skin burns and eye damage.) (OECD Test Guideline 404)

**Eyes**

Result : (Rabbit; Causes serious eye damage. ) (16 CFR 1500.42)

**Sensitisation**

Result : not sensitizing (Buehler Test; Dermal; Guinea pig)

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### CMR effects

#### CMR Properties

Carcinogenicity : No data available  
 Mutagenicity : In vitro tests did not show mutagenic effects  
 Reproductive toxicity : Based on available data, the classification criteria are not met.

### Specific Target Organ Toxicity

#### Single exposure

Remarks : No data available

#### Repeated exposure

Remarks : No data available

### Other toxic properties

#### Aspiration hazard

Not applicable,

## 11.2. Information on other hazards

### Data for the product

#### Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

<b>Component:</b>	<b>Cetrimonium chloride</b>	<b>CAS-No. 112-02-7</b>
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#### Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

## SECTION 12: Ecological information

### 12.1. Toxicity

### Data for the product

#### Acute toxicity

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**Short-term (acute) aquatic hazard**

Result : Very toxic to aquatic life.

**Chronic toxicity**
**Long-term (chronic) aquatic hazard**

Result : Very toxic to aquatic life with long lasting effects.

**Component:** **Cetrimonium chloride** **CAS-No. 112-02-7**

**Acute toxicity**
**Fish**

LC50 : 0.2 mg/l (Danio rerio; 96 h) (OECD Test Guideline 203)

**Toxicity to daphnia and other aquatic invertebrates**

EC50 : 0.012 mg/l (Daphnia magna; 48 h) (OECD Test Guideline 202)Read-across (Analogy)

**algae**

EC10 : 0.068 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (OECD Test Guideline 201)Read-across (Analogy)  
EC50 : 0.113 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (OECD Test Guideline 201)Read-across (Analogy)

**Chronic toxicity**
**Fish**

NOEC : 0.032 mg/l (Pimephales Promelas; 28 Days) (EPA-FIFRA)

**Aquatic invertebrates**

NOEC : 0.0068 mg/l (Daphnia magna (Water flea); 21 Days) (OECD Test Guideline 211)

**M-Factor**

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M-Factor (Acute Aquat. Tox.) : 10  
M-Factor (Chron. Aquat. Tox.) : 1

### 12.2. Persistence and degradability

Component:	Cetrimonium chloride	CAS-No. 112-02-7
Persistence and degradability		
Persistence		
Result	:	No data available
Biodegradability		
Result	:	61 % (aerobic; activated sludge, domestic, non-adapted; Related to: O2 consumption; Exposure Time: 28 Days)(OECD Test Guideline 301D)Readily biodegradable.

### 12.3. Bioaccumulative potential

Component:	Cetrimonium chloride	CAS-No. 112-02-7
Bioaccumulation		
Result	: log Kow 3.08 (25 °C) ((calculated)) : BCF: 79; (Lepomis macrochirus (Bluegill sunfish); 35 Days) Low bioaccumulative potential	

### 12.4. Mobility in soil

Component:	Cetrimonium chloride	CAS-No. 112-02-7
Mobility		
Water	: moderately soluble	
Air	: not volatile	
Soil	: Has low mobility.	

### 12.5. Results of PBT and vPvB assessment

Data for the product		
Results of PBT and vPvB assessment		
Result	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	

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<b>Component:</b>	<b>Cetrimonium chloride</b>	<b>CAS-No. 112-02-7</b>
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### Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## 12.6. Endocrine disrupting properties

### Data for the product

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

<b>Component:</b>	<b>Cetrimonium chloride</b>	<b>CAS-No. 112-02-7</b>
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Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

## 12.7. Other adverse effects

### Data for the product

#### Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.  
Harmful effects to aquatic organisms due to pH-shift.

<b>Component:</b>	<b>Cetrimonium chloride</b>	<b>CAS-No. 112-02-7</b>
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#### Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. This product shall be disposed of or recovered in compliance with Directive 2008/98/EC on waste as lastly amended.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not

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practicable, dispose of in compliance with local regulations.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

### SECTION 14: Transport information

#### 14.1. UN number or ID number

1760

#### 14.2. UN proper shipping name

**ADR** : CORROSIVE LIQUID, N.O.S.  
(Cetrimonium chloride)  
**RID** : CORROSIVE LIQUID, N.O.S.  
(Cetrimonium chloride)  
**IMDG** : CORROSIVE LIQUID, N.O.S.  
(Cetrimonium chloride)

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

ADR-Class : 8  
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code) 8; C9; 80; (E)  
RID-Class : 8  
(Labels; Classification Code; Hazard Identification Number) 8; C9; 80  
IMDG-Class : 8  
(Labels; EmS) 8; F-A, S-B

#### 14.4. Packaging group

ADR : III  
RID : III  
IMDG : III

#### 14.5. Environmental hazards

Environmentally hazardous according to ADR : yes  
Environmentally hazardous according to RID : yes  
Marine Pollutant according to IMDG-Code : yes

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



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### SECTION 15: Regulatory information

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

Component:	Cetrimonium chloride	CAS-No. 112-02-7
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EU. Regulation EC No. 689/2008 : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : ; The substance/mixture does not fall under this legislation.

EU. Regulation No. 1223/2009 on cosmetic products, Annex III: List of Restricted Substances in Cosmetic Products : Reference number: 286; Listed

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : Qualifying quantity for the application of Lower-tier requirements: 100 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Qualifying quantity for the application of Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Germany. List of Substances That Are Not Water-Endangering, AwSV of 21 April 2017, UBA, Banz AT, as amended : WGK 3: highly hazardous to water: 600

#### 15.2. Chemical safety assessment

No data available

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### **SECTION 16: Other information**

#### **Full text of H-Statements referred to under sections 2 and 3.**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### **Abbreviations and Acronyms**

<b>AU AIICL</b>	Australia. Industrial Chemicals Act (AIIC) List
<b>BCF</b>	bioconcentration factor
<b>BOD</b>	biochemical oxygen demand
<b>CAS</b>	Chemical Abstracts Service
<b>CLP</b>	Classification, Labelling and Packaging
<b>CMR</b>	carcinogenic, mutagenic or toxic to reproduction
<b>COD</b>	chemical oxygen demand
<b>DNEL</b>	derived no-effect level
<b>DSL</b>	Canada. Environmental Protection Act, Domestic Substances List
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>ELINCS</b>	European List of Notified Chemical Substances
<b>ENCS (JP)</b>	Japan. Kashin-Hou Law List
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>IECSC</b>	China. Inventory of Existing Chemical Substances
<b>INSQ</b>	Mexico. National Inventory of Chemical Substances
<b>ISHL (JP)</b>	Japan. Inventory of Industrial Safety & Health
<b>KECI (KR)</b>	Korea. Existing Chemicals Inventory
<b>LC50</b>	median lethal concentration
<b>LOAEC</b>	lowest observed adverse effect concentration
<b>LOAEL</b>	lowest observed adverse effect level
<b>LOEL</b>	lowest observed effect level
<b>NDSL</b>	Canada. Environmental Protection Act. Non-Domestic Substances List
<b>NLP</b>	no-longer polymer
<b>NOAEC</b>	no observed adverse effect concentration
<b>NOAEL</b>	no observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>NZIOC</b>	New Zealand. Inventory of Chemicals
<b>OECD</b>	Organisation for Economic Cooperation and Development

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<b>OEL</b>	occupational exposure limit
<b>ONT INV</b>	Canada. Ontario Inventory List
<b>PBT</b>	persistent, bioaccumulative and toxic
<b>PHARM (JP)</b>	Japan. Pharmacopoeia Listing
<b>PICCS (PH)</b>	Philippines. Inventory of Chemicals and Chemical Substances
<b>PNEC</b>	predicted no-effect concentration
<b>REACH Auth. No.:</b>	REACH Authorisation Number
<b>REACH AuthAppC. No.</b>	REACH Authorisation Application Consultation Number
<b>UK REACH Auth. No.:</b>	UK REACH Authorisation Number
<b>UK REACH AuthAppC. No.</b>	UK REACH Authorisation Application Consultation Number
<b>UK REACH-Reg.No</b>	UK REACH Registration Number
<b>STOT</b>	specific target organ toxicity
<b>SVHC</b>	substance of very high concern
<b>TCSI</b>	Taiwan. Existing Chemicals Inventory
<b>TH INV</b>	Thailand. Existing Chemicals Inventory from FDA
<b>TSCA</b>	US. Toxic Substances Control Act
<b>UVCB</b>	substance of unknown or variable composition, complex reaction products or biological materials
<b>VN INV</b>	Vietnam. National Chemical Inventory
<b>vPvB</b>	very persistent and very bioaccumulative

### Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	<p>The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.</p> <p>The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.</p>

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|| Indicates updated section.