

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

### 1.1. Product identifier

<b>Name of product</b>	Soft & Easy (Comp. 1: Des.) 144
<b>Name of substance</b>	Pentapotassium-bis(peroxymonosulphate)-bis(sulphate)
<b>EC No</b>	274-778-7
<b>CAS No</b>	70693-62-8

### 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

Product for disinfection and oxidation of pool water

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

<b>Manufacturer/distributor</b>	BAYROL Deutschland GmbH Robert-Koch-Str. 4, D-82152 Planegg Phone +49 (0) 89 85701-0
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### Advice

E-mail (competent person):  
ASchwarzenboeck@bayrol.de

### 1.4. Emergency telephone number

<b>Emergency advice</b>	Giftnotruf München (oder jedes andere Giftinformationszentrum) Phone +49 (0) 89 19240
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to 67/548/EEC or 1999/45/EC

Xn; R22  
C; R34  
R52

#### R-phrases

22	Harmful if swallowed.
34	Causes burns.
52	Harmful to aquatic organisms.

#### Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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<b>Acute Tox. 4</b>	<b>H302</b>
<b>Skin Corr. 1B</b>	<b>H314</b>
<b>Aquatic Chronic 3</b>	<b>H412</b>

#### Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**

GHS05



GHS07

**Signal word**

Danger

**Hazard Statements**

- H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

- P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazardous ingredients for labeling**

Pentapotassium-bis(peroxymonosulphate)-bis(sulphate)

**2.3. Other hazards****Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**SECTION 3: Composition/ information on ingredients****3.1. Substances**

CAS No 70693-62-8  
EC No 274-778-7

**Pentapotassium-bis(peroxymonosulphate)-bis(sulphate)****3.2. Mixtures**

not applicable

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately and dispose it safely.  
Symptoms of poisoning may not occur for hours, therefore medical supervision for at least 48 hours necessary.  
Adhere to personal protective measures when giving first aid.

**In case of inhalation**

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off immediately with plenty of water.

Refer for medical treatment.

**In case of eye contact**

Eye rinsing with water carefully while protecting unhurt eye.

Refer to medical treatment.

**In case of ingestion**

Do not induce vomiting.

Call for a doctor immediately.

Rinse out mouth and give plenty of water to drink.

**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****Treatment (Advice to doctor)**

Treat symptoms.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.

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

In case of fire formation of dangerous gases possible.

**5.3. Advice for firefighters****Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

Wear full protective clothing.

**Additional information**

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Avoid dust formation.

Use personal protective clothing.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

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

Flush away residues with water.

Take up mechanically and send for disposal.

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**6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

Emergency telephone number: see section 1

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**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

No special measures necessary if used correctly.

Do not return residues to the storage containers.

**General protective measures**

Avoid contact with eyes and skin

Do not inhale dust.

**Hygiene measures**

At work do not eat, drink and smoke.

Keep away from food and drink.

Wash hands before breaks and after work.

**Advice on protection against fire and explosion**

The product is not combustible, but supports burning.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in closed original container.

**Advice on storage compatibility**

Do not store with combustible materials.

Do not store together with food.

**Further information on storage conditions**

Protect from direct solar radiation.

Keep container dry, tightly closed and store at cool place.

Protect from heat/overheating.

**Information on storage stability**

Storage time: 5 years.

**7.3. Specific end use(s)****Recommendation(s) for intended use**

See section 1.2

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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

No information available.

**8.2. Exposure controls****Respiratory protection**

In case of dust formation wear micro dust mask.

**Hand protection**

chemical-resistant gloves

Suitable materials (recommended: protection index 6, >480 minutes permeation time according to EN 374)

Nitrile-butadiene rubber (NBR) - 0.4 mm layer thickness

Butyl rubber (butyl) - 0.7mm layer thickness

In view of the many different types, the manufacturers' directions for use must be followed

**Eye protection**

Safety goggles

**Other protection measures**

Light protective clothing.

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**
**Appearance**

granules

**Colour**

white

**Odour**

odourless

**Odour threshold**

No information available.

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	2,1	20 °C	30 g/l		
<b>Boiling temperature / boiling range</b>	No information available.				
<b>decomposition point</b>	> 80 °C				
<b>Flash point</b>	not applicable				
<b>Vapourisation rate</b>	No information available.				
<b>Flammable (solid)</b>	No information available.				
<b>Flammability (gas)</b>	No information available.				
<b>Ignition temperature</b>	No information available.				
<b>Self ignition temperature</b>	No information available.				
<b>Lower explosion limit</b>	No information available.				
<b>Upper explosion limit</b>	No information available.				
<b>Vapour pressure</b>	< 0,0017 Pa	25 °C			
<b>Relative density</b>	No information available.				
<b>Bulk density</b>	ca. 1100 kg/m <sup>3</sup>				
<b>Vapour density</b>	No information available.				
<b>Solubility in water</b>	ca. 300 g/l	20 °C			
<b>Solubility/other</b>	No information available.				

	Value	Temperature	at	Method	Remark
<b>Partition coefficient n-octanol/water (log P O/W)</b>	No information available.				
<b>Decomposition temperature</b>	No information available.				
<b>Viscosity</b>	No information available.				
<b>Oxidising properties</b>					
No information available.					
<b>Explosive properties</b>					
No information available.					
<b>9.2. Other information</b>					
No information available.					

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition can lead to the escape of irritating gases and vapours.

### 10.2. Chemical stability

No information available.

### 10.3. Possibility of hazardous reactions

Reactions with combustible substances.

Reactions with impurities.

Reactions with reducing agents.

Reactions with alkalies.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

#### Materials to avoid

Alkali (lye)

Acid, concentrated

Reducing agent

### 10.6. Hazardous decomposition products

Sulphur dioxide

Oxygen

### Thermal decomposition

Remark                      No decomposition if used as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	500 mg/kg	rat		
<b>LD50 acute dermal</b>	2000 mg/kg	rabbit		
<b>LC50 acute inhalation</b>	1,85 mg/l ( )	rat		
<b>Irritability skin</b>	corrosive			
<b>Irritability eye</b>	risk of strong eye injuries			

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Mutagenicity</b>	No information available.			
<b>Reproduction-Toxicity</b>	No information available.			
<b>Carcinogenicity</b>	No information available.			

**Experiences made from practice**

After swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.

Irritates mucous membranes.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicological effects**

	Value	Species	Method	Validation
<b>Fish</b>	LC50 32 - 56 mg/l (96 h)	Brachidanio rerio		
<b>Daphnia</b>	EC50 5,3 g/m3 (24 h)	Daphnia magna		

**12.2. Persistence and degradability**

**Physico-chemical degradability**

Product is biodegradable.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

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

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6. Other adverse effects**

**General regulation**

In sewage the product decomposes into potassium bisulphate and oxygen

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Recommendations for the product**

Remove in accordance with local official regulations.

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement.

**Recommendations for packaging**

Untaminated packaging may be taken for recycling.

**Recommended cleansing agent**

Water

**SECTION 14: Transport information**

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.1. UN number</b>	3260	3260	3260
<b>14.2. UN proper shipping name</b>	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium-bis(peroxymonosulphate)-bis(sulphate))	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium-bis(peroxymonosulphate)-bis(sulphate))	Corrosive solid, acidic, inorganic, n.o.s. (Pentapotassium-bis(peroxymonosulphate)-bis(sulphate))
<b>14.3. Transport hazard class(es)</b>	8	8	8
<b>14.4. Packing group</b>	II	II	II
<b>14.5. Environmental hazards</b>	No	No	No

**14.6. Special precautions for user**

No information available.

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

No information available.

**Land and inland navigation transport ADR/RID**

Hazard label(s) 8

tunnel restriction code E

Classification code C2

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Other regulations (EU)**

Please note:

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.

Biocide directive (98/8/EC).

#### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

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### SECTION 16: Other information

#### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Biozide sicher verwenden. Vor Gebrauch stets Kennzeichnung und Produktinformation lesen.

#### Further information

Refer to product information paper.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 5.2

#### Sources of key data used

Results of own researches and examinations

Literature informations

Toxicity studies, NIOSH-Tox-Data

National legislation and regulation

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

### 1.1. Product identifier

**Name of product** Soft & Easy (Comp. 2 Algicide)  
414784

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

**Recommended intended purpose(s)**

Algicide for treatment of pool water.

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

**Manufacturer/distributor** BAYROL Deutschland GmbH  
Robert-Koch-Str. 4, D-82152 Planegg  
Phone +49 (0) 89 85701-0

### Advice

E-mail (competent person):  
ASchwarzenboeck@bayrol.de

### 1.4. Emergency telephone number

**Emergency advice** Giftnotruf München (oder jedes andere Giftinformationszentrum)  
Phone +49 (0) 89 19240

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to 67/548/EEC or 1999/45/EC**

Xi; R36  
N; R50/53

**R-phrases**

36 Irritating to eyes.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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<b>Eye Dam. 1</b>	<b>H318</b>
<b>Aquatic Acute 1</b>	
<b>Aquatic Chronic 1</b>	<b>H410</b>

**Hazard Statements**

H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS05



GHS09

**Signal word**

Danger

**Hazard Statements**

- H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

- P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor.  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazardous ingredients for labeling**

Aluminum sulfate 14 - hydrate, Poly(2-hydroxypropyl dimethylammonium chloride)

**2.3. Other hazards**

**Results of PBT and vPvB assessment**

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

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

**3.1. Substances**

not applicable

**3.2. Mixtures**

**Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
497-19-8	207-838-8	sodium carbonate	> 50	Xi R36
16828-12-9	233-135-0	Aluminum sulfate 14 - hydrate	< 10	Xi R41
25988-97-0		Polymer of N-Methylmethanamine with (chloro methyl)oxirane	6	Xn R22; N R50/53
26062-79-3	---	2-propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer	< 25	R52/53

  

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
497-19-8	207-838-8	sodium carbonate	> 50	Eye Irrit. 2, H319
16828-12-9	233-135-0	Aluminum sulfate 14 - hydrate	< 10	Eye Dam. 1, H318

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**Hazardous ingredients (continued)**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
25988-97-0		Polymer of N-Methylmethanamine with (chloro methyl)oxirane	6	Aquatic acute 1, H400 / Aquatic chronic 1, H410 / Acute Tox. 4, H302
26062-79-3	---	2-propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer	< 25	Aqu. chron. 3, H 412

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**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

Symptoms of poisoning may not occur for hours, therefore medical supervision for at least 48 hours necessary.

Adhere to personal protective measures when giving first aid.

**In case of inhalation**

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

**In case of eye contact**

Eye rinsing with water carefully while protecting unhurt eye.

Refer to medical treatment.

**In case of ingestion**

Do not induce vomiting.

Refer to medical treatment.

Rinse out mouth and give plenty of water to drink.

**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****Treatment (Advice to doctor)**

Treat symptoms.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

water

Product does not burn, fire-extinguishing activities according to surrounding.

Foam

Dry fire-extinguishing substance

Carbon dioxide

sand

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

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters****Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.  
Wear full protective clothing.

**Additional information**

Cool endangered containers with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Use personal protective clothing.  
High risk of slipping due to leakage/spillage of product.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material.  
Flush away residues with water.

**6.4. Reference to other sections**

Safe handling: see section 7  
Disposal: see section 13  
Personal protection equipment: see section 8  
Emergency telephone number: see section 1

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**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

No special measures necessary if used correctly.

**General protective measures**

Avoid contact with eyes and skin

**Hygiene measures**

Do not eat or drink when working.  
Keep away from food and drink.  
Wash hands before breaks and after work.

**Advice on protection against fire and explosion**

The product is not combustible.  
No special measures necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep only in original container.

**Advice on storage compatibility**

Do not store together with animal feedstuffs.  
Do not store together with food.

**Further information on storage conditions**

Protect from heat and direct solar radiation.

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**Information on storage stability**

Storage time: 5 years.

**7.3. Specific end use(s)****Recommendation(s) for intended use**

See section 1.2

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

No information available.

**8.2. Exposure controls****Respiratory protection**

In case of dust formation wear micro dust mask.

**Hand protection**

chemical-resistant gloves

Suitable materials (recommended: protection index 6, &gt;480 minutes permeation time according to EN 374)

Nitrile-butadiene rubber (NBR) - 0.4 mm layer thickness

Butyl rubber (butyl) - 0.7mm layer thickness

In view of the many different types, the manufacturers' directions for use must be followed

**Eye protection**

Safety goggles

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

granules

**Colour**

blue

**Odour**

characteristic

**Odour threshold**

No information available.

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	ca. 7	20 °C	10 g/l		
<b>Boiling temperature / boiling range</b>	No information available.				
<b>Melting point / Freezing point</b>	No information available.				
<b>Flash point</b>	not applicable				
<b>Vapourisation rate</b>	No information available.				
<b>Flammable (solid)</b>	No information available.				
<b>Flammability (gas)</b>	No information available.				

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	Value	Temperature	at	Method	Remark
<b>Ignition temperature</b>	No information available.				
<b>Self ignition temperature</b>	No information available.				
<b>Lower explosion limit</b>	No information available.				
<b>Upper explosion limit</b>	No information available.				
<b>Vapour pressure</b>	No information available.				
<b>Relative density</b>	No information available.				
<b>Vapour density</b>	No information available.				
<b>Solubility in water</b>					soluble
<b>Solubility/other</b>	No information available.				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	No information available.				
<b>Decomposition temperature</b>	No information available.				
<b>Viscosity</b>	No information available.				

**Oxidising properties**

No information available.

**Explosive properties**

No information available.

**9.2. Other information**

No information available.

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

No information available.

**10.2. Chemical stability**

No information available.

**10.3. Possibility of hazardous reactions**

No information available.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials****Materials to avoid**

Reactions with strong oxidising agents.

**10.6. Hazardous decomposition products**

**Thermal decomposition**

Remark No decomposition if used as directed.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity/Irritability/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	No data available			
<b>Irritability eye</b>	risk of strong eye injuries			

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Reproduction-Toxicity</b>	No data available			
<b>Carcinogenicity</b>	No data available			

**SECTION 12: Ecological information****12.1. Toxicity****Ecotoxicological effects**

	Value	Species	Method	Validation
<b>Fish</b>	LC50 0,077 g/m <sup>3</sup> (96 h)	Oncorhynchus mykiss	OECD 203	
<b>Daphnia</b>	EC50 0,16 g/m <sup>3</sup> (48 h)	Daphnia magna	OECD 202	

**12.2. Persistence and degradability****Physico-chemical degradability**

The product can be largely eliminated from the water by abiotic processes, e.g. adsorption to activated sludge.

**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 REACH, annex XIII.

**12.6. Other adverse effects****Behaviour in sewage plant**

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

**General regulation**

Product is not allowed to be discharged into the ground water or aquatic environment.

Marine pollutant (according to IMDG-code)

The ecological figures refer to undiluted 100% pure substance.

The information to ecology refers to main component.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**
**Recommendations for the product**

Remove in accordance with local official regulations.

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement.

**Recommendations for packaging**

Untampered packaging may be taken for recycling.

**Recommended cleansing agent**

Water

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	3077	3077	3077
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Polyquaternary ammonium compounds)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Polyquaternary ammonium compounds)	Environmentally hazardous substance, solid, n.o.s. (Polyquaternary ammonium compounds)
<b>14.3. Transport hazard class(es)</b>	9	9	9
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>	Yes	Yes	Yes

**14.6. Special precautions for user**

No information available.

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

No information available.

**Land and inland navigation transport ADR/RID**

Hazard label(s) 9

tunnel restriction code E

Classification code M7

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## SECTION 15: Regulatory information

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

#### Other regulations (EU)

Please note:

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.  
Biocide directive (98/8/EC).

### 15.2. Chemical Safety Assessment

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

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## SECTION 16: Other information

### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Biocide sicher verwenden. Vor Gebrauch stets Kennzeichnung und Produktinformation lesen.

### Further information

Refer to product information paper.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.9

### Sources of key data used

Results of own researches and examinations

Literature informations

Toxicity studies, NIOSH-Tox-Data

National legislation and regulation

### Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 22 Harmful if swallowed.

R 36 Irritating to eyes.

R 41 Risk of serious damage to eyes.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H 412 -?-

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.