

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

1.1. Product	identifier
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Name of product

Chlorifix Shock 414918

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

Disinfection, oxidation, algae prevention, flocculation and hardness stabilizer 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.eu
1.4. Emergency telephone number	

NCEC, Phone (+44)(0)1865407333

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements Classification procedure
Acute Tox. 4	H302
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335
Aquatic Acute 1	
Aquatic Chronic 1	H410
Hazard Statements	l if ourseloured

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]





## Signal word

Danger

#### **Hazard Statements**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

### **Precautionary Statements**

P101 P102	If medical advice is needed, have product container or label at hand. Keep out of reach of children.
P270 P280	Do no eat, drink or smoke when using this product. Wear protective gloves/eye protection.
P305 + P351 + P338 P308 + P311	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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), troclosene sodium, dihydrate

### Supplemental Hazard information (EU)

Contact with acids liberates toxic gas.

#### Special rules for supplemental label elements for certain mixtures

Warning! Do not use together with other products. May release dangerous gases (chlorine).

### 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
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CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
51580-86-0	220-767-7	troclosene sodium, dihydrate	50	Acute Tox. 4, H302 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
70693-62-8	274-778-7	Pentapotassium- bis(peroxymonosulphate)-bis(sulphate)	4,5	Acute tox. Cat 4, H302 / Skin corr. Cat 1 B, H314 /
REACH				
CAS No	Name			<b>REACH registration number</b>
51580-86-0	troclosene s	odium, dihydrate		01-2119489371-33-xxxx



### **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. 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. 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.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media Suitable extinguishing media Large quantities of water Carbon dioxide sand

Unsuitable extinguishing media Small quantities of water

foam

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

In the event of fire the following can be released: Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO2) Chlorine (Cl2)

### 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.



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

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

For non-emergency personnel Ensure adequate ventilation. Avoid dust formation. Use personal protective clothing. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/aerosol.

#### 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 mechanically and send for disposal.

#### **Additional Information**

Neutralize active chlorine with suitable materials (Sulphite, Thiosulphate or hydrogen peroxide aqueous solution)

#### 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

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

### 7.1. Precautions for safe handling Advice on safe handling

Avoid the formation and deposition of dust. Use only in well-ventilated areas.

### **General protective measures**

Do not inhale dust. Avoid contact with the eyes.

#### **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

Keep away from sources of ignition - No smoking Keep at distance of acids, reducing agents and organic substances (e.g.wood, paper, fat). Avoid entering of water in shortage.

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 food.

#### **Further information on storage conditions** Keep container tightly closed. Storage: cool and dry

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

Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]		Remark
7782-50-5	chlorine	8 hours	1,5	0,5	1(I)	DFG, EU, Y

#### 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

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

Appearance granules		Colour white		<b>Odour</b> typical, p	oungent
Odour threshold not determined					
Important health, safety a	and environmenta	al information			
	Value	Temperature	at	Method	Remark
pH value	ca. 4 - 6	20 °C	10 g/l		
Boiling temperature / boiling range	not determine	ed			
decomposition point	240 - 250 °C				

Flash point	not determined
Vapourisation rate	not determined
Flammable (solid)	not determined
Flammability (gas)	not determined
Ignition temperature	not determined



your pool & spa water expert

### Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) revision 10.12.2015 (GB) Version 2.9 Chlorifix Shock

414918

	Value	Temperature	at	Method	Remark
Self ignition temperature	not determined				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	not determined				
Bulk density	1210 kg/m3				
Vapour density	not determined				
Solubility in water	250 g/l	25 °C			
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				
<b>Oxidising properties</b> No information available.					
Explosive properties No information available.					
9.2. Other information					

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

Decomposition temperature: 240°C - 250°C

### 10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gases.

### 10.4. Conditions to avoid

Reactions with combustible substances. Reactions with acids. Reactions with fats and oils. Reactions with impurities. Reactions with organic substances.



10.5. Incompatible materials

Substances to avoid Oil

Acid

10.6. Hazardous decomposition products

Nitrogen trichloride Nitrous oxides (NOx) Chlorine

### Additional information

Product may cause bleaching textiles, liners, paintings etc. Chlorine gas may decompose metals and is corrosive.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark	
LD50 acute oral	ca. 500 mg/kg	rat		Information concerns to main component.	
Skin irritation	irritant				
Eye irritation	risk of strong eye injuries				
Experiences made from practice					

Irritates respiratory tract. Irritates mucous membranes.

#### **Additional information**

The product has not been tested. The information is derived from the properties of the individual components.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

### Ecotoxicological effects

	Value	Species	Method	Validation	
Fish	LC50 0,25 - 0,46 mg/l (96 h)	diverse Spezies		M = 1	
Daphnia	EC50 0,28 mg/l (48 h)	Daphnia magna		M = 1	
<b>12.2. Persist</b> No informatic	ence and degradability on available.				
<b>12.3. Bioacc</b> No informatic	umulative potential on 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

### **General regulation**

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants. 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**

Uncontaminated packaging may be taken for recycling.

# Recommended cleansing agent

Water

### **SECTION 14: Transport information**

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

Marine transport IMDG MARINE POLLUTANT



### **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.

#### 15.2. Chemical Safety Assessment

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

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

#### **Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

#### 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.

#### Sources of key data used

Results of own researches and examinations Literature informations Toxicity studies, NIOSH-Tox-Data National legislation and regulation

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.