

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

### 1.1. Product identifier

Name of product Chloriklar  
410030

### 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

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

### Advice

E-mail (competent person):  
SDS@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
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Acute Tox. 4	H302
Eye Irrit. 2	H319
STOT SE 3	H335
Aquatic Acute 1	
Aquatic Chronic 1	H410

#### Hazard Statements

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
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]



GHS07



GHS09

#### Signal word

Warning

#### Hazard Statements

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/eye 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.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

#### Hazardous ingredients for labeling

symclosene

#### Supplemental Hazard information (EU)

EUH031 Contact with acids liberates toxic gas.

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

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

#### 2.3. Other hazards

Preparation contains CMR-substance at concentration levels just below those that require special labelling.

#### 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 Regulation (EC) No 1272/2008 [CLP/GHS]
87-90-1	201-782-8	symclosene	55	Ox. Sol. 2, H272 / Acute Tox. 4, H302 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
497-19-8	207-838-8	sodium carbonate	10 <= 20	Eye Irrit. 2, H319
10043-35-3	233-139-2	boric acid	5,4	Repr. 1B, H360FD

#### REACH

CAS No	Name	REACH registration number
497-19-8	sodium carbonate	01-2119485498-19-XXXX
10043-35-3	boric acid	01-2119486683-25-XXXX

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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.

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.

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## 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

Nitrogen trichloride

In the event of fire the following can be released:

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

Carbon monoxide (CO)

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

Chlorine (Cl<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

Ensure adequate ventilation.  
Avoid dust formation.  
Use personal protective clothing.  
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

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Use only in well-ventilated areas.

#### 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

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.

**Storage group** 13

**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**

**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**

tightly fitting goggles

## SECTION 9: Physical and chemical properties

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

**Appearance**

tablet

**Colour**

white

**Odour**

typical, pungent

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	ca. 6	20 °C	10 g/l	potentiometric	
<b>Boiling temperature / boiling range</b>	not determined				
<b>decomposition point</b>	240 - 250 °C				
<b>Flash point</b>	not determined				
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>	not determined				

	Value	Temperature	at	Method	Remark
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	1,6 g/cm <sup>3</sup>				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>	not determined				
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity</b>	not determined				
<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

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 (NO<sub>x</sub>)  
 Hydrogen chloride (HCl)  
 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
<b>LD50 acute oral</b>	890 mg/kg	rat		Information concerns to main component.
<b>LD50 acute dermal</b>	> 2000 mg/kg	rabbit	IUCLID	
<b>Eye irritation</b>	irritant			

#### 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
<b>Fish</b>	LC50 0,3 mg/l (96 h)	Lepomis macrochirus		M = 1
<b>Daphnia</b>	EC50 0,21 mg/l (48 h)	Daphnia magna		M = 1

### 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 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.

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**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

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**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. (symclosene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (symclosene)	Environmentally hazardous substance, solid, n.o.s. (symclosene)
<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 -

Classification code M7

**Marine transport IMDG**

MARINE POLLUTANT

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

Please note:

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



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**National regulations****Restriction of occupation**

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

**Other regulations, restrictions and prohibition regulations**

ZH 1/81 "Data Sheet for hazardous chemical substances"

ZH 1/124 "Plant instructions for working with hazardous substances (A 010)"

ZH 1/132 "Data Sheet: Skin protection (M 042)"

ZH 1/175 "Data Sheet for First Aid due to influence of hazardous chemical substances"

ZH 1/192 "Data Sheet for eye protection"

ZH 1/129 "Data Sheet: Irritating substances / corrosive substances (M 004)"

**Water hazard class**

2

**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.

**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: 9.1

**Sources of key data used**

Results of own researches and examinations

Literature informations

Toxicity studies, NIOSH-Tox-Data

National legislation and regulation

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H360FD May damage fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.