

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

1.1. Product identifier

Name of product

Chloryte with antiscale / avec anti-calcaire 111as

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

Advice

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

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
Ox. Sol. 2	H272	
Acute Tox. 4	H302	
Skin Corr. 1B	H314	
Aquatic Acute 1	H400	
-		

Hazard Statements

H272	May intensify fire; oxidiser.
H302 H314	Harmful if swallowed. Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

2.2. Label elements

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



Signal word Danger

Hazard Statements

H272 May intensify fire; oxidiser.



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H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

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Precautionary	Statements
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P101 P102	If medical advice is needed, have product container or label at hand. Keep out of reach of children.
P221 P270 P280	Take any precaution to avoid mixing with combustibles. Do no eat, drink or smoke when using this product. Wear protective gloves/eye 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

calcium hypochlorite

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

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

SECTION 3: Composition/ information on ingredients

3.1. Substances not applicable

3.2. Mixturo Hazardous	es ingredients			
CAS No	EC No	Name	[%]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
7778-54-3	231-908-7	calcium hypochlorite	98	Ox. Sol. 2, H272 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Aquatic Acute 1, H400 M=10



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. 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.

SECTION 5: Firefighting measures

5.1. Extinguishing media Suitable extinguishing media Dry powder Carbon dioxide Dry sand Water spray jet

5.2. Special hazards arising from the substance or mixture In the event of fire the following can be released: Hydrogen chloride (HCI) 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

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. 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 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 with combustible materials. Do not store together with food. Do not store together with acids.

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 Exposur	e controls					

8.2. Exposure controls

Respiratory protection

Dust mask Short term: filter apparatus, Filter P2

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

5.1. miorma	lion on basic physical an	a onennear properties				
Appearance solid in vario		Colour white		Odour typical, pun	gent	
Odour thres not determine						
Important he	ealth, safety and environ	nental information				
	Value	Temperature	at	Method	Remark	

	Value	Iemperature	at	Method	Remark	
pH value	10,5 - 11,5	20 °C	10 g/l			_
Boiling temperature / boiling range	not determined					
decomposition point	> 175 °C					
Flash point	not applicable					
Vapourisation rate	not determined					
Flammable (solid)	not determined					
Flammability (gas)	not determined					



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	Value	Temperature	at	Method	Remark
Ignition temperature	not determined				
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	ca. 0,9 kg/m3				
Vapour density	not determined				
Solubility in water	200 g/l	20 °C			
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				
Oxidising properties 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

Decompostion takes place from temperatures above: >175°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 impurities. Reactions with organic substances. Reactions with water.



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10.5. Incompatible materials

Substances to avoid

Oil Acid Water

10.6. Hazardous decomposition products

Hydrogen chloride (HCl) Chlorine

Thermal decomposition

Remark No decomposition if used as directed.

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	850 mg/kg	rat		
Skin irritation	corrosive			
Eye irritation	strong corrosive			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity	No data available			
Reproduction- Toxicity	No data available			
Carcinogenicity	No data available			

Experiences made from practice

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

Irritates mucous membranes.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects



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	Value	Species	Method	Validation	
Fish	LC50 0,049 - 0,16 mg/l (96 h)	Lepomis macrochirus		M = 10	
Daphnia	EC50 0,41 mg/l (48 h)	Daphnia magna		M = 1	
12.2. Persist	ence 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

This substance does not meet the PBT/vPvB criteria of 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

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. The product should not be allowed to enter drains, water courses or the soil.

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	3487	3487	3487
14.2. UN proper shipping name	CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE	CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE	Calcium hypochlorite, hydrated, corrosive
14.3. Transport hazard class(es)	5.1 (8)	5.1 (8)	5.1 (8)
14.4. Packing group	II	II	II
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) 5.1+8 tunnel restriction code E Classification code OC2

Marine transport IMDG MARINE POLLUTANT

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.

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been 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.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.0

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.
- H314 Causes severe skin burns and eye damage.
- H400 Very toxic to aquatic life.