

No. 1907/2006 (REACH)

revision 21.03.2014 (GB) Version 3.0

Calcinex 410383

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

1.1. Product identifier

Name of product Calcinex 410383

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

Hardness stabilizer and complexing agents 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, Fax +49 (0) 89 85701-276

E-Mail bayrol@bayrol.de Internet www.bayrol.de

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Additional hints

The preparation is not classified as hazardous according to Directive 1999/45/EC.

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

Hazard classes and Hazard

Hazard Statements Classification procedure

categories

Met. Corr. 1 H290

Hazard Statements

H290 May be corrosive to metals.

2.2. Label elements

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

Signal word

Warning

Hazard Statements

H290 May be corrosive to metals.

Precautionary Statements

P102 Keep out of reach of children.

P262 Do not get in eyes, on skin, or on clothing.

P501 Dispose of contents/ container to an approved waste disposal plant.



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your pool & spa water expert Calcin 410383

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	Concent ration	Classification according to 67/548/EEC
37971-36-1	253-733-5	2-Phosphonbutan-1,2,4-Tricarboxylsäure	< 50	
CAS No	EC No	Name	Concent ration	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
37971-36-1	253-733-5	2-Phosphonbutan-1,2,4-Tricarboxylsäure	< 50	Met. korr. 1, H290

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

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

Seek medical advice 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.

Dry powder Carbon dioxide

Water spray jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO2)

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

No information available.

For non-emergency personnel

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 with absorbent material (e.g. acid binder).

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures necessary if used correctly.

Take the usual precautions when handling with chemicals.

General protective measures

Avoid contact with eyes and skin

Hygiene measures

Do not eat or drink when working.

Keep away from food and drink.



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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 with alkalies.

Do not store together with animal feedstuffs.

Do not store together with food.

Further information on storage conditions

Store at cool and aired place.

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

Breathing apparatus in the event of aerosol or mist formation.

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 Colour liquid light yellow

Odour odourless

Odour threshold



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No information available.

Important health,	safety and	l environmental	information
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Boiling temperature / boiling range Melting point / Freezing point Flash point > 100 ℃ DIN 51758 Vapourisation rate No information available. Flammable (solid) No information available. Flammability (gas) No information available. Ignition temperature No information available. Self ignition temperature No information available. Lower explosion limit No information available. Upper explosion limit No information available. Vapour pressure No information available. Relative density 1,13 g/cm3 20 ℃ aerometric Vapour density No information available.		Value	Temperature	at	Method	Remark
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Solubility/other No information available. Partition coefficient n- No information available.	Vapour density	No information	on available.			
Partition coefficient n- No information available.	Solubility in water					multimiscible
	Solubility/other	No information	on available.			
		No information	on available.			
Decomposition No information available. temperature	-	No information	on available.			
Viscosity No information available.	Viscosity	No information	on 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

Reactions with metals, with evolution of hydrogen.

Reactions with strong alkalies.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Materials to avoid

Alkali (lye)

10.6. Hazardous decomposition products

No hazardous decomposition products known.

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
LD50 acute oral	> 6500 mg/kg	rat (male)		
LD50 acute dermal	> 4000 mg/kg	rat	92/69/EEC , B.3	
Irritability eye	low irritant - no labeling duty			

Subacute Toxicity - Carcinogenicity

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

Additional information

Toxical dates refer to base substance.



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SECTION 12: Ecological information

12.1. Toxicity

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	Value	Species	Method	Validation	
Daphnia	EC50 > 1071 g/m3	Daphnia magna			

12.2. Persistence and degradability

Biological degradability

Slightly biodegradable

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

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

General regulation

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

Uncontaminated packaging may be taken for recycling.

Recommended cleansing agent

Water

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	3265	3265	3265
14.2. UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2-Phosphonbutan-1,2,4- Tricarboxylsäure)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2- Phosphonbutan-1,2,4- Tricarboxylsäure)	Corrosive liquid, acidic, organic, n.o.s. (2-Phosphonbutan-1,2,4-Tricarboxylsäure)



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	ADR/RID	IMDG	IATA-DGR
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	III	III	III
14.5. Environmental hazards	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 C3

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

Emergency numbers:

IT CENTRO ANTIVELENI C/O OSPEDALI RIUNITI DI BERGAMO Telefono 800 883300

PT Centro de Informação Antivenenos Número de telefone 808 250 143

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: 2.9

Sources of key data used

Results of own researches and examinations

Literature informations

Toxicity studies, NIOSH-Tox-Data

National legislation and regulation

H290 May be corrosive to metals.