

revision

Calcinex

06.10.2016 (GB) Version 1.3

410383

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

1.1. Product identifier

Name of product

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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

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

Hazard Statements Classification procedure

categories

Met. Corr. 1 Eye Irrit. 2

H290 H319

Hazard Statements H290

May be corrosive to metals.

H319

Causes serious eye irritation.

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.

H319

Causes serious eye irritation.

Precautionary Statements

P101

If medical advice is needed, have product container or label at hand.



Safety Data Sheet according to Regulation (EC)

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P102 Keep out of reach of children.

P280 Wear protective gloves/eye protection.

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

P338 easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

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

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 Regulation (EC) No 1272/2008 [CLP/GHS]
37971-36-1	253-733-5	2-Phosphonobutane-1,2,4-tricarboxylic acid	< 50	Met. korr. 1, H290 / Eye Irrit. 2, H319
REACH				
CAS No	Name			REACH registration number
37971-36-1	2-Phosphon	obutane-1,2,4-tricarboxylic acid		01-2119436643-39-XXXX

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.



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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

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

For non-emergency personnel

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

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



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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 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

Odour odourless

liquid

light yellow

Odour threshold



9.2. Other information No information available. Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) revision 06.10.2016 (GB) Version 1.3

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Important health, safety and					
	Value	Temperature	at	Method	Remark
pH value	ca. 1,9	20 °C	10 g/l	potentiometric	determinated undiluted
boiling point	> 100 °C				
Melting point / Freezing point	not determined				
Flash point	> 100 °C			DIN 51758	
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
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	1,13 g/cm3	20 °C		aerometric	
Vapour density	not determined				
Solubility in water					multimiscible
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.					



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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

Substances to avoid

Alkali (lye)

Oxidising agent

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/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 2000 mg/kg	rat		
LD50 acute dermal	> 2000 mg/kg	rabbit		
Eye irritation	irritant - risk of strong eye injuries			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation	
Mutagenicity	No data available				
Reproduction- Toxicity	No data available				
Carcinogenicity	No data available				
Additional informat Toxical dates refer to					



Safety Data Sheet according to Regulation (EC)

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SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

Value

Species

Method

Validation

Fish

LC50 3440 mg/l (48 h)

Oncorhynchus

gorbuscha

Daphnia

EC50 265 g/m3 (24 h)

Daphnia magna

12.2. Persistence and degradability

Elimination rate

Method of analysis

Method

Validation

Slightly biodegradable

Biological degradability

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

Waste code No.

Name of waste

16 05 09

discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

! Recommendations for the product

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

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
14.1. UN number	3265	3265	3265
14.2. UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2-Phosphonobutane-1,2, 4-tricarboxylic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2- Phosphonobutane-1,2,4- tricarboxylic acid)	Corrosive liquid, acidic, organic, n.o.s. (2-Phosphonobutane-1,2,4-tricarboxylic acid)
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	III	III	III
14.5. Environmental hazards	s 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 Authorizations

! Other regulations (EU)

Regulation (EU) 1272/2008 (CLP), Regulation (EU) 1907/2006 (REACH), DECISION 2000/532/EG (list of wastes)

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

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: 1.2

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.H319 Causes serious eye irritation.