

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

1.1. Product identifier	
Name of product	Calcinex 410383
<b>1.2. Relevant identified uses of the substance or mi</b> <b>Recommended intended purpose(s)</b> Hardness stabilizer and complexing agents for treatment	-
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 categories	Hazard Hazard Staten	nents Classification procedure
Met. Corr. 1	H290	
Eye Irrit. 2	H319	
Hazard Statements H290	-	
H290	May be corrosive to metals.	
H319	Causes serious eye irritation	).
2.2. Label element Labelling accordir	s g to Regulation (EC) No 127	2/2008 [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.



P102	Keep out of reach of children.
P280	Wear protective gloves/eye protection.
P305 + P351 + P338 P337 + P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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			<b>REACH registration number</b>
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.



# 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



Odour

odourless

#### **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 propertiesAppearanceColourliquidlight yellow

Odour threshold



### not determined

# Important health, safety and environmental information

	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				
<b>Oxidising properties</b> No information available.					
Explosive properties No information available.					
<b>9.2. Other information</b> 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 informatio	n			

Toxical dates refer to base substance.



# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecotoxicolo	gical effects			
	Value	Species	Method	Validation
Fish	LC50 3440 mg/l (48 h)	Oncorhynchus gorbuscha		
Daphnia	EC50 265 g/m3 (24 h)	Daphnia magna	a	
12.2. Persist	ence and degradability Elimination rate	Method of analysis	Method	Validation
Biological degradabilit	v			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	
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



# **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	Ш	III	Ш
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 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.