

## Alkalinity-P (BaCl<sub>2</sub>) Tablet Count

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

#### 1.1 - Product identifier

Trade name/designation Alkalinity-P (BaCl<sub>2</sub>) Tablet Count

Chemical name

Product-type Mixture

Product code PPHAPB

#### 1.2 - Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses - Reagent for water analysis

Uses advised against - Other

#### 1.3 - Details of the supplier of the safety data sheet

Water-I.D. GmbH

Daimlerstr. 20

76344 Eggenstein Germany

Telephone : +49 (0) 721 - 78 20 29 - 0 Fax +49 (0) 721 - 78 20 29 - 11

Website [www.water-id.com](http://www.water-id.com)

EHS / Compliance: [lab@water-id.com](mailto:lab@water-id.com)

#### 1.4 - Emergency telephone number

- Poison Control Center Munich

Tel: +49 (0) 89 / 19 24 0

Germany

24 hour service

Languages: German, English

please also call from: United Kingdom

### SECTION 2: Hazards identification

#### 2.1 - Classification of the substance or mixture

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

Acute Tox. 3 Oral	Acute toxicity (oral) - Category 3
Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4

#### 2.2 - Label elements

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

Contains: barium chloride dihydrate (CAS No.: 10326-27-9)

Signal word : Danger

Hazard pictograms



Hazard statements

H301	Toxic if swallowed
H332	Harmful if inhaled

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### Precautionary statements

P261	Avoid breathing dust.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a a POISON CENTER, a doctor if you feel unwell.
P330	Rinse mouth.
P405	Store locked up.
P501	Dispose of contents, container to an appropriate recycling or disposal facility.
EUH-phrases	: None

### 2.3 - Other hazards

## SECTION 3: Composition / information on ingredients

### 3.1 - Substances

Not applicable

### 3.2 - Mixtures

Chemical name	No	%	Class	Spec. concentrations
barium chloride dihydrate	CAS No. : 10326-27-9 Index No. : 056-004-00-8 EC No. : 233-788-1	70 - 90	Acute Tox. 3 Oral - H301 Acute Tox. 4 Inhalation - H332	Not applicable

## SECTION 4: First aid measures

### 4.1 - Description of first aid measures

#### Following inhalation

- Provide fresh air.
- After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.
- When in doubt or if symptoms are observed, get medical advice.
- Medical examination necessary even merely on suspicion of intoxication.
- Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

#### Following skin contact

- Wash immediately with: Water
- When in doubt or if symptoms are observed, get medical advice.

#### After eye contact

- Rinse immediately carefully and thoroughly with eye-bath or water.
- In case of eye irritation consult an ophthalmologist.

#### After ingestion

- Seek medical advice immediately.
- Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.
- Rinse mouth thoroughly with water.

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- Medical treatment necessary.
- When in doubt or if symptoms are observed, get medical advice.

### 4.2 - Most important symptoms and effects, both acute and delayed

Symptoms and effects - Following inhalation - No information available.

Symptoms and effects - Following skin contact - No information available.

Symptoms and effects - After eye contact - No information available.

Symptoms and effects - After ingestion - No information available.

### 4.3 - Indication of any immediate medical attention and special treatment needed

- Treat symptomatically. Antidotal dispensation.

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## SECTION 5: Firefighting measures

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### 5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO<sub>2</sub>)
- Foam
- Extinguishing powder

Unsuitable extinguishing media - Full water jet

### 5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture - Hazardous combustion products

### 5.3 - Advice for firefighters

- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
- Do not allow run-off from fire-fighting to enter drains or water courses.
- Remove product from area of fire.
- Wear a self-contained breathing apparatus and chemical protective clothing.

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## SECTION 6: Accidental release measures

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### 6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Remove persons to safety.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

For emergency responders

- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.
- Ensure waste is collected and contained.

### 6.3 - Methods and material for containment and cleaning up

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<u>Methods and material for containment</u>	<ul style="list-style-type: none"><li>- Soak up inert absorbent and dispose as waste requiring special attention.</li><li>- No information available.</li></ul>
<u>Methods and material for cleaning up</u>	<ul style="list-style-type: none"><li>- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).</li><li>- Take up carefully when dry.</li><li>- Clear contaminated areas thoroughly.</li><li>- Clean contaminated articles and floor according to the environmental legislation.</li><li>- Take up mechanically, placing in appropriate containers for disposal.</li><li>- Take up dust-free and set down dust-free.</li><li>- Ventilate affected area.</li></ul>
<u>Inappropriate techniques</u>	<ul style="list-style-type: none"><li>- No information available.</li></ul>
6.4 - Reference to other sections	
- Personal protection equipment: see section 8	

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### SECTION 7: Handling and storage

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#### 7.1 - Precautions for safe handling

<u>Recommendation</u>	<ul style="list-style-type: none"><li>- After use replace the closing cap immediately.</li><li>- Avoid exposure - obtain special instructions before use.</li><li>- Vapours/aerosols must be exhausted directly at the point of origin.</li><li>- All work processes must always be designed so that the following is excluded: Generation/formation of dust</li><li>- All work processes must always be designed so that the following is excluded: Inhalation</li><li>- See section 8.</li></ul>
<u>Advices on general occupational hygiene</u>	<ul style="list-style-type: none"><li>- Wash contaminated clothing prior to re-use.</li><li>- When using do not eat, drink, smoke, sniff.</li><li>- Thorough skin-cleansing after handling the product.</li><li>- Wash hands before breaks and after work.</li><li>- Work in well-ventilated zones or use proper respiratory protection.</li></ul>

#### 7.2 - Conditions for safe storage, including any incompatibilities

- Storage class Non-combustible substances of acute toxicity, category 1 and 2 / very toxic substances (solid)
- Do not store together with: Food and feedingstuffs
- Storage class Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

#### 7.3 - Specific end use(s)

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### SECTION 8: Exposure controls/personal protection

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#### 8.1 - Control parameters

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### 8.2 - Exposure controls

Appropriate engineering controls - No information available.

Individual protection measures, such as personal protective equipment - Tested protective gloves must be worn



- Suitable protective clothing: lab coat



- Suitable respiratory protection apparatus: Self-contained respirator (breathing apparatus) (DIN EN 133)



Environmental exposure controls - Further information: see technical data sheet.

## SECTION 9: Physical and chemical properties

### 9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Solid	<u>Appearance</u>	Powder
<u>Colour</u>	pink	<u>Odour</u>	odourless
Odour threshold		No data available	
pH		No data available	
Melting point		No data available	
Freezing point		No data available	
Boiling point		No data available	
Flash point		No data available	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		No data available	
Solubility (Water)		85 %	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

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### 9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

## SECTION 10: Stability and reactivity

### 10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

### 10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

### 10.4 - Conditions to avoid

- No information available.

### 10.5 - Incompatible materials

- No information available.

### 10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 - Information on toxicological effects

Acute toxicity  
- Acute toxicity (oral) - Category 3 - Toxic if swallowed  
- Acute toxicity (inhalative) - Category 4 - Harmful if inhaled

#### Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- No information available.  
- Harmful by inhalation.  
- Toxic by inhalation.

#### Toxicity : Substances

barium chloride dihydrate (10326-27-9)	
LD50 oral (rat)	100 mg/kg < V < 676 mg/kg
LC50 inhalation dusts and mists (rat)	1,1 mg/l 4h

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<u>Skin corrosion/irritation</u>	- Not classified
<u>Serious eye damage/eye irritation</u>	- Not classified
<u>Respiratory or skin sensitisation</u>	- Not classified
<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- Not classified
	- data lacking
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- Not classified

### SECTION 12: Ecological information

#### 12.1 - Toxicity

##### Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

##### Toxicity : Substances

barium chloride dihydrate (10326-27-9)	
EC50 48 hr crustacea	14,5 mg/l
LC50 96 hr fish	3,5 mg/l < V < 174 mg/l
ErC50 algae	1,15 mg/l < V < 100 mg/l
NOEC chronic fish	1,26 mg/l < V < 100 mg/l
NOEC chronic crustacea	15 mg/l
NOEC chronic algae	1,15 mg/l < V < 100 mg/l

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

#### 12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

#### 12.3 - Bioaccumulative potential

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Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

### 12.4 - Mobility in soil

- No information available.

### 12.5 - Results of PBT and vPvB assessment

### 12.6 - Other adverse effects

- No information available.

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## SECTION 13: Disposal considerations

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### 13.1 - Waste treatment methods

#### Waste treatment methods

- Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
- Handle contaminated packages in the same way as the substance itself.

#### Sewage disposal

- No information available.

#### Special precautions for waste treatment

- Waste requires special monitoring.
- Collect the waste separately.
- Send to a hazardous waste incinerator facility under observation of official regulations.
- The waste is to be kept separate from other types of waste until its disposal.
- Waste requires monitoring.

#### Community or national or regional provisions

- No information available.

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## SECTION 14: Transport information

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### 14.1 - UN number

<u>UN number (ADR)</u>	:	UN1564
<u>UN number (RID)</u>	:	UN1564
<u>UN number (ADN)</u>	:	UN1564
<u>UN number (IMDG)</u>	:	UN1564
<u>UN number (IATA)</u>	:	UN1564

### 14.2 - UN proper shipping name



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<u>UN proper shipping name (ADR)</u>	:	BARIUM COMPOUND, N.O.S. (barium chloride dihydrate)
<u>UN proper shipping name (RID)</u>	:	BARIUM COMPOUND, N.O.S. (barium chloride dihydrate)
<u>UN proper shipping name (ADN)</u>	:	BARIUM COMPOUND, N.O.S. (barium chloride dihydrate)
<u>UN proper shipping name (IMDG)</u>	:	BARIUM COMPOUND, N.O.S. (barium chloride dihydrate)
<u>UN proper shipping name (IATA)</u>	:	BARIUM COMPOUND, N.O.S. (barium chloride dihydrate)

### 14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 6.1

ADR Classification code: : T5

Pictograms



Transport hazard class(es) (RID) : 6.1

Pictograms



Transport hazard class(es) (ADN) : 6.1

Pictograms



Transport hazard class(es) (IMDG) : 6.1

Pictograms



Transport hazard class(es) (IATA) : 6.1

Pictograms



### 14.4 - Packing group

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<u>Packing group</u>	:	III
<u>Packing group (RID)</u>	:	III
<u>Packing group (ADN)</u>	:	III
<u>Packing group (IMDG)</u>	:	III
<u>Packing group (IATA)</u>	:	III

### 14.5 - Environmental hazards

<u>Environmental hazards</u>	:	No
<u>Marine pollutant</u>	:	No

### 14.6 - Special precautions for user

#### **ADR**

<u>ADR Classification code:</u>	:	T5
<u>ADR Special provisions</u>	:	177+274+513+587
<u>ADR Limited quantity (LQ)</u>	:	5 kg
<u>ADR Excepted quantities</u>	:	E1
<u>ADR Packing instructions</u>	:	P002 IBC08 LP02 R001
<u>ADR Special packing provisions</u>	:	B3
<u>ADR Mixed packing provisions</u>	:	MP10
<u>Instructions for portable tanks and bulk containers</u>	:	T1
<u>Special provisions for portable tanks and bulk containers</u>	:	TP33
<u>ADR tank code</u>	:	SGAH L4BH
<u>ADR tanks special provisions</u>	:	TU15 TE19
<u>Vehicle for tank carriage</u>	:	AT
<u>ADR Transport category</u>	:	2
<u>ADR Tunnel restriction code</u>	:	E
<u>ADR Special provisions loading, unloading and handling</u>	:	CV13 CV28
<u>Special provisions - Packages</u>	:	
<u>Special provisions - Bulk</u>	:	VC1 VC2 AP7
<u>Special provisions - Operation</u>	:	S9
<u>ADR Hazard identification number (Kemler No.)</u>	:	60

#### **RID**

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

#### **ADN**

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

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### **IMDG**

<u>Special provisions</u>	:
<u>Limited quantity (LQ)</u>	:
<u>Excepted quantities</u>	:
<u>Packing instructions</u>	:
<u>Special packing provisions</u>	:
<u>IBC instruction(s)</u>	:
<u>IBC provisions</u>	:
<u>Instructions for portable tanks and bulk containers</u>	:
<u>Special provisions for portable tanks and bulk containers</u>	:
<u>EmS codes</u>	:
<u>Stowage and handling</u>	:
<u>Segregation</u>	:
<u>Properties and observations</u>	:

### **IATA**

<u>PCA - Excepted quantities</u>	:
<u>PCA - Limited Quantity - Packing Instructions</u>	:
<u>PCA - Limited Quantity - Maximum Net Quantity per Package</u>	:
<u>PCA - Packing Instructions</u>	:
<u>PCA - Maximum Net Quantity per Package</u>	:
<u>CAO - Packing Instructions</u>	:
<u>CAO - Maximum Net Quantity per Package</u>	:
<u>Special Provisions</u>	:
<u>ERG Code</u>	:

14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## **SECTION 15: Regulatory information**

15.1 - Safety, health and environmental regulations/legislation specific for the substance or mixture

<u>Substances REACH candidates</u>	None
<u>Substances Annex XIV</u>	None
<u>Substances Annex XVII</u>	None
<u>VOC content</u>	No data available

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

## **SECTION 16: Other information**

SDS versions

Version	Issue date	Description of the amendments
1	14.12.2018	MSDS creation.

Abbreviations and acronyms - See overview table at [www.euphrac.eu](http://www.euphrac.eu)

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literature information ordinance (EG) Nr. 1272/2008 (CLP, EU-GHS)

Texts of the regulatory sentences

Acute Tox. 3 Oral	Acute toxicity (oral) - Category 3
Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
H301	Toxic if swallowed
H332	Harmful if inhaled

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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