

Alkalinity-P (BaCl₂) Tablet Count

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

1.1 - Product identifier

Trade name/designation Alkalinity-P (BaCl₂) Tablet Count

Chemical name

Product-type Mixture

Product code TbsHAPB

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

Relevant identified uses - Reagent for water analysis

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

EHS / Compliance: 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

Precautionary statements

Alkalinity-P (BaCl₂) Tablet Count

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 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.
- Medical treatment necessary.

Alkalinity-P (BaCl₂) Tablet Count

- 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.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO₂)
- 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

Hazardous decomposition products

- Carbon monoxide
- Sulphur oxides

5.3 - Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Remove product from area of fire.
- 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.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

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.

Alkalinity-P (BaCl₂) Tablet Count

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- Soak up inert absorbent and dispose as waste requiring special attention.
- No information available.

Methods and material for cleaning up

- Ventilate affected area.
- Take up dust-free and set down dust-free.
- Clear contaminated areas thoroughly.
- Take up mechanically, placing in appropriate containers for disposal.
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Take up carefully when dry.
- Clean contaminated articles and floor according to the environmental legislation.

Inappropriate techniques

- No information available.

6.4 - Reference to other sections

- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- See section 8.
- All work processes must always be designed so that the following is excluded: Inhalation
- All work processes must always be designed so that the following is excluded: Generation/formation of dust
- Vapours/aerosols must be exhausted directly at the point of origin.
- After use replace the closing cap immediately.
- Avoid exposure - obtain special instructions before use.

Advices on general occupational hygiene

- Work in well-ventilated zones or use proper respiratory protection.
- Wash hands before breaks and after work.
- When using do not eat, drink, smoke, sniff.
- Wash contaminated clothing prior to re-use.
- Thorough skin-cleansing after handling the product.

7.2 - Conditions for safe storage, including any incompatibilities

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

7.3 - Specific end use(s)

SECTION 8: Exposure controls/personal protection

Alkalinity-P (BaCl₂) Tablet Count

8.1 - Control parameters

8.2 - Exposure controls

Appropriate engineering controls

- No information available.

Individual protection measures, such as personal protective equipment

- Suitable protective clothing: lab coat



- Suitable eye protection: Eye glasses with side protection



- Suitable respiratory protection apparatus: Particle filter device (DIN EN 143)



- The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

- Tested protective gloves must be worn



- Suitable material: NBR (Nitrile rubber)

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>	Tablets
<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		

Alkalinity-P (BaCl₂) Tablet Count

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

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

Alkalinity-P (BaCl₂) Tablet Count

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

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

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

Skin corrosion/irritation - Not classified

Serious eye damage/eye irritation - Not classified

Respiratory or skin sensitisation - Not classified

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

STOT-single exposure - Not classified

- data lacking

STOT-repeated exposure - Not classified

Aspiration hazard - 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

Alkalinity-P (BaCl₂) Tablet Count

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

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.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

<u>Waste treatment methods</u>	<ul style="list-style-type: none">- Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.- Handle contaminated packages in the same way as the substance itself.
<u>Sewage disposal</u>	<ul style="list-style-type: none">- Do not empty into drains.
<u>Special precautions for waste treatment</u>	<ul style="list-style-type: none">- Waste requires special monitoring.- Collect the waste separately.- Send to a hazardous waste incinerator facility under observation of official regulations.- Waste requires monitoring.- The waste is to be kept separate from other types of waste until its disposal.
<u>Community or national or regional provisions</u>	<ul style="list-style-type: none">- Dispose according to legislation.

Alkalinity-P (BaCl₂) Tablet Count

SECTION 14: Transport information

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

<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)

Alkalinity-P (BaCl₂) Tablet Count

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

Packing group : III

Packing group (RID) : III

Packing group (ADN) : III

Packing group (IMDG) : III

Packing group (IATA) : III

14.5 - Environmental hazards

Environmental hazards : No

Marine pollutant : No

14.6 - Special precautions for user

Alkalinity-P (BaCl₂) Tablet Count

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>	:	

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>	:	

Alkalinity-P (BaCl₂) Tablet Count

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content 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.

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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