

according to Regulation (EC) No 1907/2006

Bariumhydroxid-Octahydrat zur Analyse, Reag. Ph. Eur.

Revision date: 07.07.2023

Product code: 25182

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

1.1. Product identifier

Bariumhydroxid-Octahydrat zur Analyse, Reag. Ph. Eur.

CAS No:	12230-71-6
Index No:	056-002-00-7
EC No:	241-234-5

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

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMT	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and C	Canada: +1 703-741-5970 (collect calls
	accepted)	

Further Information

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute Tox. 4; H332 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:





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Hazard statements		
H302+H332	Harmful if swallowed or if inhaled.	
H314	Causes severe skin burns and eye damage.	
Precautionary statemen	Its	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor.	
2.3. Other hazards		
No data available		

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	Ba(OH)2 * 8 H2O
Molecular weight:	315,48 g/mol

Hazardous components

CAS No	Chemical name					
	EC No Index No REACH No					
	Classification (Regulation (EC) No 1272/2008)					
12230-71-6	barium hydroxide octahydrate					
	241-234-5 056-002-00-7					
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1; H332 H302 H314 H318					

Full text of H and EUH statements: see section 16.

Specific Cond	Specific Conc. Limits, M-factors and ATE				
CAS No	lo EC No Chemical name				
	Specific Conc. Limits, M-factors and ATE				
12230-71-6	241-234-5 barium hydroxide octahydrate				
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE = 500 mg/kg				

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.



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Call a physician immediately.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

After ingestion

Never give anything by mouth to an unconscious person or a person with cramps. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Irritant corrosive Cough Dyspnoea Abdominal pain Vomiting Circulatory collapse Dizziness Risk of serious damage to eyes. Gastrointestinal complaints Circulatory collapse Spasms Cardiac arrhythmias

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible solids

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus.

In case of fire, wear sen-contained breathing

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures



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Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Take up carefully when dry. Take up dust-free and set down dust-free.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. Avoid dust formation. Do not breathe dust. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Make available sufficient washing facilities Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a well-ventilated place. Keep container tightly closed. storage temperature +5°C - +30°C

Further information on storage conditions

Store in a dry place.

7.3. Specific end use(s)

Laboratory chemicals



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	-			
DNEL type		Exposure route	Effect	Value	
12230-71-6	barium hydroxide octahydrate				
Consumer DNEL, long-term oral systemic 3,4 mg/kg bw/day					

PNEC values

CAS No	Substance			
Environmental compartment Value				
12230-71-6	12230-71-6 barium hydroxide octahydrate			
Freshwater		0,115 mg/l		
Freshwater sediment 600,4 mg/kg				
Micro-organisms in sewage treatment plants (STP) 62,2 mg/l				
Soil	207,7 mg/kg			

Additional advice on limit values

(anhydrous form)

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Avoid dust formation. Do not breathe dust.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Wear eye/face protection.

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Trade name/designation KCL 741 Dermatril® L Suitable material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation KCL 741 Dermatril® L Suitable material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).



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Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: P2

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

5.1. Information on basic physical and the		
Physical state:	solid	
Colour:	white	
Odour:	odourless	70.00
Melting point/freezing point:		78 °C
Boiling point or initial boiling point and		No data available
boiling range: Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available No data available
Auto-ignition temperature: Decomposition temperature:		100-780 °C
pH-Value (at 20 °C):		14
Viscosity / kinematic:		No data available
Water solubility:		72 g/L
(at 20 °C)		
Solubility in other solvents		
No data available Partition coefficient n-octanol/water:		Ne dete eveileble
Vapour pressure:		No data available No data available
Vapour pressure:		No data available
Density:		2,18 g/cm ³
Bulk density:		900-1100 kg/m ³
Relative vapour density:		No data available
9.2. Other information		
Information with regard to physical haz Explosive properties	ard classes	
No data available		
Sustaining combustion:		No data available
Self-ignition temperature		
Solid:		No data available
Gas:		No data available
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:		No data available
Solvent separation test:		No data available
Solvent content:		0
Solid content:		0



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Bariumhydroxid-Octahydrat zur Analyse, Reag. Ph. Eur. Revision date: 07.07.2023 Product code: 25182 Page 7 of 11 No data available Sublimation point: No data available Softening point: No data available Pour point: No data available: No data available Viscosity / dynamic: Flow time: No data available **Further Information** No data available **SECTION 10: Stability and reactivity**

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Acid

Hydrogen sulphide (H2S)

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Light metal

10.6. Hazardous decomposition products

No data available

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Harmful if swallowed.

Harmful if inhaled.

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
12230-71-6	barium hydroxide octahydrate						
	oral	ATE mg/kg	500				
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction



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Revision date: 07.07.2023 Based on available data, the classification crit STOT-single exposure Based on available data, the classification crit STOT-repeated exposure Based on available data, the classification crit Aspiration hazard Based on available data, the classification crit Information on likely routes of exposure No data available Specific effects in experiment on an animal No data available Additional information on tests No data available Practical experience No data available 11.2. Information on other hazards Endocrine disrupting properties No data available Other information If swallowed danger of perforation of the esop Further information Irritant corrosive Cough	eria are not met. eria are not met.		Page 8 of 11
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Irritant corrosive Cough	hagus and the stomach (st	rong corrosive effects).	
corrosive Cough			
Cough			
-			
Dyspnoea Abdominal pain			
Vomiting			
Circulatory collapse			
Dizziness			
Risk of serious damage to eyes.			
Gastrointestinal complaints			
Circulatory collapse			
Spasms			
Cardiac arrhythmias			
SECTION 12: Ecological information			
12.1. Toxicity			
	aria ara nat mat		
Based on available data, the classification crit	ena are not met.		



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
12230-71-6	barium hydroxide octahydrate						
	Acute fish toxicity	LC50 mg/l	> 3,5	96 h	Danio rerio	Study report (2010)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 1,15	72 h	Pseudokirchneriella subcapitata	Study report (2010)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	14,5	48 h	Daphnia magna	Publication (1972)	Not a guideline study but meets generall
	Fish toxicity	NOEC mg/l	>= 100	33 d	Danio rerio	Study report (2014)	OECD Guideline 210
	Crustacea toxicity	NOEC	10 mg/l	7 d	other aquatic arthropod: Cancer anthonyi	Publication (1988)	
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)	OECD Guideline 209

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

BCF

CAS No	Chemical name	BCF	Species	Source
12230-71-6	barium hydroxide octahydrate	68,4	Lepomis macrochirus	Arch.Environ.Contam.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not allow to enter into surface water or drains.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information



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according to Regulation (EC) No 1907/2006

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Land transport (ADR/RID)				
14.1. UN number or ID number:	UN 2923			
14.2. UN proper shipping name:	CORROSIVE SOLID, TOXIC, N.O.S. (barium hydroxide octahydrate)			
14.3. Transport hazard class(es):	8			
14.4. Packing group:				
Hazard label:	8+6.1			
Classification code:	CT2			
Special Provisions:	274			
Limited quantity:	1 kg			
Excepted quantity:	E2			
Transport category:	2			
Hazard No:	86			
Tunnel restriction code:	E			
Inland waterways transport (ADN)				
14.1. UN number or ID number:	UN 2923			
14.2. UN proper shipping name:	CORROSIVE SOLID, TOXIC, N.O.S. (barium hydroxide octahydrate)			
14.3. Transport hazard class(es):	8			
14.4. Packing group:				
Hazard label:	8+6.1			
Classification code:	CT2			
Special Provisions:	274 802			
Limited quantity:	1 kg			
Excepted quantity:	E2			
Marine transport (IMDG)				
14.1. UN number or ID number:	UN 2923			
14.2. UN proper shipping name:	CORROSIVE SOLID, TOXIC, N.O.S. (barium hydroxide octahydrate)			
14.3. Transport hazard class(es):	8			
14.4. Packing group:	u l			
Hazard label:	8+6.1			
Special Provisions:	274			
Limited quantity:	1 kg			
Excepted quantity:	E2			
EmS:	F-A, S-B			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID number:	UN 2923			
14.2. UN proper shipping name:	CORROSIVE SOLID, TOXIC, N.O.S. (barium hydroxide octahydrate)			
14.3. Transport hazard class(es):	8			
14.4. Packing group:				
Hazard label:	8+6.1			
Special Provisions:	A3 A803			
Limited quantity Passenger: Passenger LQ:	5 kg			
Excepted quantity:	Y844 E2			
IATA-packing instructions - Passenger:	859			
IATA-max. quantity - Passenger:	659 15 kg			
IATA-max. quantity - rassenger. IATA-packing instructions - Cargo:	863			
IATA-max. quantity - Cargo:	50 kg			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	Νο			
LIVIRONNENTALLI HAZARDOUS.	NU			
SECTION 15: Regulatory information				

SECTION 15: Regulatory information

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



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National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles acc	cording to the 'juvenile

Water hazard class (D):

work protection guideline' (94/33/EC). 1 - slightly hazardous to water

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 12.

Abbreviations and acronyms

Acute Tox: Acute toxicity Skin Corr: Skin corrosion Eye Dam: Eye damage

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.

Further Information

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. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.