

## Safety Data sheet

According to Directive 1907/2006

### 0308 BARIUM HYDROXIDE 8-HYDRATE

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Creation Date: 01/12/2010 Revision date: 31/05/2017

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## 1. Identification of the substance/preparation and of the company/undertaking

### Identification of the product

Catalogue No: 0308 Product name: BARIUM HYDROXIDE 8-HYDRATE Use of the substance: Analysis and chemical-pharmaceutical production.

### Company/undertaking identification

QUALITY CHEMICALS, SL - C/Fornal 35. Pol. Ind. Can Comelles Sud 08292 ESPARREGUERA ESPAÑA Tel. 937709730 Fax. 937709337 e-mail: dtecnica@qualitychemicals.com

### Emergency telephone No.

Quality Chemicals S.L. Tel. +34 937709730 Only in business hours. Instituto Nacional de Toxicología \*Madrid\* Tel:915620420 Chemtrec: 800-424-9300

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## 2. Hazards identification

Labelling in accordance with directive 1907/2006



### R-phrases

20/22 Harmful by inhalation and if swallowed.

34 Causes burns.

### S-phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible)

Labelling in accordance with directive 1272/2008



**H-phrases**

314 Causes severe skin burns and eye damage.  
318 Causes serious eye damage.  
332 Harmful if inhaled.  
302 Harmful if swallowed.

**P-phrases**

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
305+351 If in eyes: Rinse cautiously with water for several minutes.  
338 Remove contact lenses, if present and easy to do. Continue rinsing.

Signal word : DANGER

CORROSIVE

R-phrases:

Harmful by inhalation and if swallowed.  
Causes burns.

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### 3.Composition/information on ingredients

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 12230-71-6

Molecular Weight: 315,47

Chemical formula:  $\text{Ba}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$

EC-Index-No.: 056-002-00-7

EC-No.: 241-234-5

R-phrases 20/22; 34

For more information about the R-Phrases text you can consult the paragraph 16

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### 4.First aid measures

**After inhalation:**

Fresh air

Call the physician

After skin contact:

Rinse with abundant water (or have a shower)

Extract the substance by means of cotton impregnated with polietilenglicol 400

Undress immediately of the contaminated clothes

**After eye contact:**

Rinse with abundant water, keeping eyelids open (at least 10 min)

Call the ophthalmologist

**After swallowing:**

Drink several litters of water and avoid vomit (perforation risk)

Call the doctor

Do not carry out neutralization measures

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### 5.Fire-fighting measures

**Suitable extinguishing media:**

Adapt the materials of the surroundings

**Special risks:**

Fireproof

Ambient fire may liberate hazardous vapours

**Special protective equipment for fire fighting:**

Remain in the risk area only if provided with independent artificial respiratory systems.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

**Other information:**

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

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## 6. Accidental release measures

**Person-related precautionary measures:**

Avoid dust formation  
Do not inhale dust  
Avoid contact with the substance  
Ventilation in closed spaces

**Procedures for cleaning/absorption:**

Dry cleaning. Proceed to the elimination of any waste.  
Rinse.

To avoid the inert dust formation

**Environmental protection measures:**

Do not send it to the sewerage system

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## 7. Handling and storage

Handling: Without other exigencies

**Storage:**

Well closed  
Dry place.  
Storage temperature: without limits

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## 8. Exposure controls/personal protection

Exposure limit control  
TLV-TWA: 0,5 mg/m<sup>3</sup> (Ba)

**Personal protective equipment:**

**Respiratory protection:**

Necessary respiratory protection in the presence of dust

**Hand protection:**

Needed  
Protection gloves:

Nitrile rubber

**Eye protection:**

Needed

**Skin and body protection:**

Suitable protective clothing

**Other protective equipment:**

Change immediately contaminated clothes  
Recommendable preventive protection of the skin  
Wash hands and face when the work is finished  
Fulfill the commitments under local environmental protection legislation

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## 9. Physical and chemical properties

Physical state: Solid  
Colour: White  
Odour: Odourless  
pH value: 14 (saturated aqueous solution)  
Melting point: 78°C  
Boiling point: 408°C  
Solubility: 72 g/l (water)

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## 10. Stability and reactivity

### Substances to be avoided:

Acids.  
Hydrogen sulfide.

### Hazardous decomposition products:

Carbon monoxide.  
Carbon dioxide.  
Barium oxide

### Further information:

Strong heating (decomposition).  
Releases water of crystallization when heated.

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## 11. Toxicological information

### Acute toxicity:

LD50 (oral, rat): 550 mg/kg

#### After eye contact:

Burns  
Risk of blindness

#### After skin contact:

Burns

#### After inhalation:

Irritations of the mucous membranes  
Coughing  
Dyspnoea

#### After long contact:

Due to absorption:  
Cardiac dysrhythmia  
Collapse  
CNS disorders

#### After swallowing:

Nausea  
Vomiting  
Diarrhoea  
Burns in the digestive tract  
Risk of perforation in stomach  
Risk of perforation in the oesophagus

#### Further toxicological information:

Other dangerous characteristics are not discarded  
Take the usual precautions for handling chemical products

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## 12. Ecological information

Fishes: *Leuciscus idus* EC50: 870 mg/l (Ba); *Salmo gairdneri* EC50: 158 mg/l (Ba)

Daphnia: *Daphnia magna* EC50: 29 mg/l (Ba)

Algae: *Sc. quadricauda* EC50: 34 mg/l

**Other harmful effects:**

Hazard for drinking water supplies

Harmful effect due to pH shift

Do not allow to enter waters, waste water, or soil

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## 13. Disposal considerations

### Product:

Dispose as regulated in the community countries by local regulations.

Please contact with the suitable authority in each case (Public Administration or company specialized in

### Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.

For contaminated packaging the same measures must be adopted as for the contaminated product.

Not contaminated packaging must be disposed of as domestic residues or recycled material.

European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

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## 14. Transport information

### Overland transport ADR/RID

UN: 1564

Class: 6.1

Packaging group: III

Correct technical name: BARIUM COMPOUND, N.O.S.

### Sea transport IMDG

UN: 1564

Class: 6.1/III

Packaging group: III

Correct technical name: BARIUM COMPOUND, N.O.S.

### Air transport ICAO-IATA-DGR

UN: 1564

Class: 6.1

Packaging group: III

Correct technical name: BARIUM COMPOUND, N.O.S.

CAO: 677

PAX: 670

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## 15. Regulatory information

## 16. Other information

Full text of R phrases mentioned in sections 2 and 3

20/22 Harmful by inhalation and if swallowed.

34 Causes burns.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.