

Safety Data sheet

According to Directive 1907/2006

0305 BARIUM CHLORIDE 2-HYDRATE

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

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

Identification of the product

Catalogue No: 0305 Product name: BARIUM CHLORIDE 2-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

2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

20 Harmful by inhalation.
25 Toxic if swallowed.

S-phrases

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

332 Harmful if inhaled.
301 Toxic if swallowed.

P-phrases

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Signal word : DANGER
TOXIC
R-phrases:
Harmful by inhalation.
Toxic if swallowed.

3. Composition/information on ingredients

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

CAS-No.: 10326-27-9

Molecular Weight: 244,27

Chemical formula: $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$

EC-Index-No.: 056-004-00-8

EC-No.: 233-788-1

R-phrases 20; 25

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

4. First aid measures

After inhalation:

Fresh air

If necessary, artificial respiration

Call the physician

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

After eye contact:

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

Call the ophthalmologist

After swallowing:

Drink lots of water

To cause vomit

Call the doctor

Laxative: sodium sulphate (1 spoonful for every 1/4 l water)

5. Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Special risks:

Fireproof

Ambient fire may liberate hazardous vapours

The following may develop in event of fire: hydrochloric acid

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:

Precipitate emergent steam with water

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

6. Accidental release measures

Person-related precautionary measures:

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

Procedures for cleaning/absorption:

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

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed
In well-ventilated place
Dry place.
Storage temperature: without limits
Only authorized access to specialized technicians

8. Exposure controls/personal protection

Exposure limit control
VLA-ED: 0,5 mg/m³ (Ba)

Personal protective equipment:

Respiratory protection:

Necessary respiratory protection in the presence of dust

Hand protection:

Protection gloves:
Nitrile rubber

Eye protection:

Needed

Other protective equipment:

Change immediately contaminated clothes
Recommendable preventive protection of the skin
Wash hands and face when the work is finished
Neither to eat, nor to drink, nor to smoke during the work
Work under extractor
Do not inhale the substance
Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid
Colour: White
Odour: Odourless
pH value: 5,2-8,2 (50 g/l H₂O)
Melting point: 113°C

Solubility: 375 g/l (water) (anhydrous)

10. Stability and reactivity

Substances to be avoided:

Acids.

Strong oxidizing agents.

Halogen-halogen compounds.

Furan-2-percarbonic acid.

Strong reducing agents.

Hazardous decomposition products:

Not available.

Further information:

To avoid heating.

Releases water of crystallization when heated.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 118 mg/kg (anhydrous)

After eye contact:

Conjunctivitis

After skin contact:

Dermatitis

After inhalation:

Irritations of the mucous membranes

Coughing

Dyspnoea

Absorption

After long contact:

Bradycardia

Cardiac dysrhythmia

Muscular rigidity

Rise in blood pressure

Collapse

Respiratory paralysis

Impaired function of heart

Death

After swallowing:

Diarrhoea

Vomiting

Nausea

Abdominal pain

Saliva flow

Colics

Irritations

Further toxicological information:

The precautions adapted for chemical agents must be observed

12. Ecological information

Fishes: *Leuciscus idus*: LC50: 870 mg/l/48h (anhydrous)

Daphnia: *Daphnia magna*: EC50: 21,9 mg/l/48h (anhydrous)

Other harmful effects:

Contamination of ground water involves risks for drinking water catchment
Do not allow to enter waters, waste water, or soil

13. Disposal considerations**Product:**

Dispose as regulated in the communitary 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

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

15. Regulatory information**16. Other information**

Full text of R phrases mentioned in sections 2 and 3
20 Harmful by inhalation.
25 Toxic if swallowed.

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.