

Safety Data sheet

According to Directive 1907/2006

0309 BARIUM NITRATE

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: 0309 Product name: BARIUM NITRATE 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

8 Contact with combustible material may cause fire.
20/22 Harmful by inhalation and if swallowed.

S-phrases

17 Keep away from combustible material.
28 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).

Labelling in accordance with directive 1272/2008



H-phrases

272 May intensify fire; oxidiser.
332 Harmful if inhaled.
302 Harmful if swallowed.

P-phrases

210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Signal word : WARNING

HARMFUL; OXIDIZING

R-phrases:

Contact with combustible material may cause fire.
Harmful by inhalation and if swallowed.

3. Composition/information on ingredients

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

CAS-No.: 10022-31-8

Molecular Weight: 261,35

Chemical formula: $Ba(NO_3)_2$

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

EC-No.: 233-020-5

R-phrases 8; 20/22

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

Give oxygen by specialized people

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

Call the doctor

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 nitrogen oxides

Special protective equipment for fire fighting:

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

Other information:

Precipitate emergent steam with water

Avoid penetration 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
Moved away of inflammable substances, sources of ignition and heat
Dry place.
Storage temperature: without limits

8. Exposure controls/personal protection

Exposure limit control
VLA-ED: 0.5 mg/m³ (como 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
Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid
Colour: White
Odour: Odourless
pH value: 5,0-8,0 (50 g/l H₂O, 25°C).

Melting point: 592°C
Vapour pressure: Low.
Solubility: 90 g/l (water, 20°C).

10. Stability and reactivity

Substances to be avoided:

Combustible substances.
Metals in powder form.
Sulfur.
Polyvinyl chloride.
Charcoal.
Powdered aluminium.

Hazardous decomposition products:

Nitrogen oxides.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 355 mg/kg.

After long contact:

Cardiac dysrhythmia
Bradycardia
Rise in blood pressure
Collapse

Muscular rigidity
Due to absorption:
Metahemoglobinemia

After swallowing:

Irritations of mucous membranes in the mouth
Salivation
Nausea
Vomiting
Colics
Diarrhoea
Dizziness

Further toxicological information:

Take the usual precautions for handling chemical products

12. Ecological information

Fishes: *Leuciscus idus*, LC50: 870 mg/l.

Algae: *Scenedesmus quadricauda*: toxic from 34 mg/l.

Other harmful effects:

Do not allow to enter waters, waste water, or soil
Hazard for drinking water supplies
May contribute to the eutrophication of water supplies

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

14. Transport information**Overland transport ADR/RID**

UN: 1446
Class: 5.1 (6.1)
Packaging group: II
Correct technical name: BARIUM NITRATE

Sea transport IMDG

UN: 1446
Class: 5.1/II (6.1)
Packaging group: II
Correct technical name: BARIUM NITRATE

Air transport ICAO-IATA-DGR

UN: 1446
Class: 5.1 (6.1)
Packaging group: II
Correct technical name: BARIUM NITRATE
CAO: 562
PAX: 558

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3
8 Contact with combustible material may cause fire.
20/22 Harmful by inhalation and 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.