

Safety Data sheet

According to Directive 1907/2006

0394 BARIUM HYDROXIDE 1-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: 0394 Product name: BARIUM HYDROXIDE 1-HYDRATE Use of the substance: Analysis and chemical-pharmaceutical production. REACH registration Nr.: 01-2119495571-31-0000

Company/undertaking identification

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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.

3.Composition/information on ingredients

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

CAS-No.: 22326-55-2

Molecular Weight: 189,35

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

EC-No.: 241-234-5

R-phrases 20/22; 34

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

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 liters of water and avoid vomit (perforation risk)

Call the doctor

Do not carry out neutralization measures

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 subterraneous aquifers.

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

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed
Dry place.
Storage temperature: without limits

8. Exposure controls/personal protection

Exposure limit control
TLV-TWA: 0.5 mg/m³ (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

9. Physical and chemical properties

Physical state: Solid

Colour: White
Odour: Odourless
pH value: 14 (saturated aqueous solution)
Solubility: 40 g/l (water)

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).
Sensitive to air.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 550 mg/kg (as 8-hydrate)

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

12. Ecological information

Fishes: *Leuciscus idus*: CE50: 870 mg/l: *Salmo gairdneri*: CE50: 158 mg/l (both as 8-hydrate)

Daphnia: *Daphnia magna*: CE50: 29 g/l (Ba)

Algae: *Sc. cudricauda*: CE50: 34 mg/l (as 8-hydrate)

Other harmful effects:

Hazard for drinking water supplies
Harmful effect due to pH shift
Do not allow to enter waters, waste water, or soil

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: 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
20/22 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.