



Safety Data Sheet
According to Regulation (EC) 1907/2006
and (EU) 453/2010

1183 Barium Chloride solution 10% w/v

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

1.1 Product identifier

Name:

Barium Chloride solution 10% w/v

CAS: [10361-37-2]

REACH Registration Number: 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) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 4

Acute Tox. 4

Classification (67/548/CEE or 1999/45/CE).

Xn Harmful

R20/22

2.2 Label elements:

Hazard Pictograms



Signal word

Warning

Hazard statements

H332 Harmful if inhaled.

H302 Harmful if swallowed.

Precautionary statements

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

Name: Barium Chloride solution 10% w/v

Formula: BaCl₂·2H₂O M.= 244,28 CAS [10361-37-2]

EC number (EINECS): 233-788-1

EC index number: 056-004-00-8

COMPOSITION:

0001: Barium Chloride anhydrous

CAS [10361-37-2]

EC number (EINECS): 233-788-1

EC index number: 056-004-00-8

Content: 10 %

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 4

Acute Tox. 3

Hazard Pictograms



Signal word

Danger

Hazard statements

H332 Harmful if inhaled.

H301 Toxic if swallowed.

Precautionary statements

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P405 Store locked up.

Classification (67/548/CEE or 1999/45/CE).

T Toxic

R25 Toxic if swallowed.

R20 Harmful by inhalation.

4. First aid measures

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water, keeping eyelids open. In the event of irritation, seek medical assistance.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Call for medical help.

5. Firefighting measures

5.1 Suitable extinguishing media:

As appropriate to the environment.

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

Incombustible. In the event of fire, toxic fumes may form.

5.4 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No special indications.

6.2 Environmental precautions:

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods and material for containment and cleaning up:

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

7.1 Precautions for safe handling:

No special indications.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers.

Recommended storage temperature: Room temperature.

8. Exposure controls/personal protection

8.1 Exposure controls:

No special indications.

8.2 Control parameters:

VLA-ED(Ba): 0,5 mg/m³

8.3 Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection.

8.4 Hand protection:

Use suitable gloves

8.5 Eye/face protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Odourless.

pH: 4 - 5

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repetición

(20/4) 1,087 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

10. Stability and reactivity

10.1 Conditions to avoid:

The product is chemically stable under standar ambient conditions (room temperature).

10.2 Incompatible materials:

No specific data.

10.3 Hazardous decomposition products:

No specific data.

10.4 Chemical stability:

No specific data.

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat : 118 mg/kg (referring to the anhydrous substance)

LD50 ipr mus : 51 mg/kg (referring to the anhydrous substance)

11.2 Dangerous effects for health:

If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. May cause: nausea vomiting dizziness saliva flow intestinal disorders diarrhoea headaches stomach pains Systemic effects: arrhythmia cardiovascular disorders alterations of the circulation collapse muscular disorders

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Algae (Sc. quadricauda) 34 mg/l

Classification:

Extr. toxic

Crustaceans (Daphnia magna) 29 mg/l

Classification:

Extr. toxic

Fish (Salmo gairdneri) Ba. 158 mg/l

Classification: Highly toxic

Fish (Leuciscus Idus) Ba. 870 mg/l

Classification: Highly toxic

- Receptor medium:

Risk for the water environment

High

Risk for the land environment

Medium

- Observations:

The ecotoxicity is due to the ion Ba.

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

BOD5/COD

Biodegradability

- Abiotic degradation depending on pH:

- Observations:

12.3 Bioaccumulative potential:

- Test:

- Bioaccumulation:

Risk

- Observations:

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

Dangerous for drinking water.

Do not allow it to enter soils or water channels.

13. Disposal considerations

13.1 Waste treatment methods:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

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

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14. Transport information

Overland (ADR):

Technical name: TOXIC LIQUID, INORGANIC, N.O.S.

UN 3287 Class: 6.1 CONTAM. MAR Packaging group: III (E)

By sea (IMDG):

Technical name: TOXIC LIQUID, INORGANIC, N.O.S.

UN 3287 Class: 6.1 CONTAM. MAR Packaging group: III

By air (ICAI-IATA):

Technical name: Toxic liquid, inorganic, n.o.s.

UN 3287 Class: 6.1 CONTAM. MAR Packaging group: III

Packaging instructions: CAO 663 PAX 655

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

Other precautionary statements

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s): **R20/22** Harmful by inhalation and if swallowed.

S-phrase(s): **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S28a After contact with skin, wash immediately with plenty of water.

Version and revision date : 4 15.09.2011

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In respect of the previous review, changes have been made to the following sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.