



Safety Data Sheet

According to Regulation (EU) 830/2015

1182 Barium Chloride 2-hydrate

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

1.1 Product identifier

Name:

Barium Chloride 2-hydrate

REACH Registration Number: 01-2119502547-42-XXXX

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)

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Acute Tox. 4

Acute Tox. 3

2.2 Label elements:

Hazard Pictograms



Signal word

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.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients**3.1 Substances**

Name: Barium Chloride 2-hydrate

Formula: $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$ M.= 244,28 CAS [10326-27-9]

EC number (EINECS): 233-788-1

EC index number: 056-004-00-8

REACH Registration Number: 01-2119502547-42-XXXX

3.2 Mixtures**4. First aid measures****4.1 Description of first aid measures**

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

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed**Swallowing:**

Drink large amounts of water. Laxatives: sodium sulphate (1 soup-spoonful in 250 ml of water). Induce vomiting. Seek immediate medical assistance. In the event of suffocation, proceed to provide artificial respiration. In case of loss of consciousness, position the person lying on his/her side. Seek immediate medical assistance.

Inhaling:

Take the person out into the fresh air.

Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

Eyes:

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

5. Firefighting measures**5.1 Extinguishing media:**

As appropriate to the environment.

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the dust.

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 dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

6.4 Reference to other sections

Not applicable

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. Dry atmosphere.

Recommended storage temperature: Room temperature.

7.3 Specific end use(s)

No more relevant data available

8. Exposure controls/personal protection**8.1 Control parameters:**

Data not available.

8.2 Exposure controls

No special indications.

Respiratory protection:
If dust forms, use suitable respiratory protection.

Hand protection:
Use suitable gloves

Eye/face protection:
Use safety glasses.

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

Environmental exposure controls:
Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: solid
Colour: White
Granulometry: N/A
Odour: Odourless.
pH: ~5 - 8
Melting point/freezing point: 962 °C
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: N/A
Solubility: 357 g/l in water (20 °C)
Partition coefficient: n-octanol/water:
N/A
Auto-ignition temperature:
N/A
Decomposition temperature: above 100 °C
Kinematic viscosity: N/A
Dynamic viscosity:
N/A

9.2 Other information

No more relevant data available

10. Stability and reactivity

10.1 Reactivity

No specific data.

10.2 Chemical stability:

Through heating, the product loses the crystallization water.

10.3 Possibility of hazardous reactions

No specific data.

10.4 Conditions to avoid:

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

10.5 Incompatible materials:

Halogen halides. Furan-2-percarboxylic acid.

10.6 Hazardous decomposition products:

No specific data.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

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

LD50 ipr mus : 51 mg/kg

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 :

Data not available.

12.3 Bioaccumulative potential:

Data not available.

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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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

14.1 UN number

UN1564

14.2 UN proper shipping name

BARIUM COMPOUND, N.O.S.

14.3 Transport hazard class(es)

6.1

14.4 Packing group

ADR/IMDG: III

IATA: III

14.5 Environmental hazards**14.6 Special precautions for user**

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

15.2 Chemical safety assessment

Not applicable

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.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P405 Store locked up.

Version and revision date : 6 07.10.2017

Date published: 07.10.2017

In respect of the previous review, changes have been made to the following sections: 1,2,4,5,6,7,8,9,10,11,13,14,15

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.