

BARIUM CHLORIDE, DIHYDRATE**0615**

October 1999

CAS No: 10326-27-9
 RTECS No: CQ8751000
 UN No: 1564
 EC No: 056-002-00-7

BaCl₂ · 2H₂O
 Molecular mass: 244.3

| TYPES OF HAZARD/ EXPOSURE | ACUTE HAZARDS/SYMPTOMS | PREVENTION | FIRST AID/FIRE FIGHTING |
|---------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| FIRE | Not combustible. Gives off irritating or toxic fumes (or gases) in a fire. | | In case of fire in the surroundings: use appropriate extinguishing media. |
| EXPLOSION | | | |
| EXPOSURE | | PREVENT DISPERSION OF DUST! STRICT HYGIENE! | |
| Inhalation | Cough. Sore throat. See Ingestion. | Ventilation (not if powder), local exhaust, or breathing protection. | Fresh air, rest. Artificial respiration may be needed. Refer for medical attention. |
| Skin | Redness. | Protective gloves. | Remove contaminated clothes. Rinse skin with plenty of water or shower. |
| Eyes | Redness. | Safety spectacles or eye protection in combination with breathing protection. | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor. |
| Ingestion | Abdominal pain. Nausea. Diarrhoea. Vomiting. Weakness. Dullness. Unconsciousness. | Do not eat, drink, or smoke during work. | Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Rest. |

SPILLAGE DISPOSAL

Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Personal protection: P2 filter respirator for harmful particles.

PACKAGING & LABELLING

Xn Symbol
 R: 20/22
 S: (2-)28
 Note: A
 UN Hazard Class: 6.1
 UN Pack Group: III

Do not transport with food and feedstuffs.

EMERGENCY RESPONSE

Transport Emergency Card: TEC (R)-61S1564-III or 61GT5-III

SAFE STORAGE

Separated from food and feedstuffs.

IPCS

International
 Programme on
 Chemical Safety



Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission ©
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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance

WHITE SOLID IN VARIOUS FORMS

Chemical dangers

The substance decomposes on heating producing toxic fumes.

Occupational exposure limits

TLV: (as Ba) 0.5 mg/m³ as TWA; A4 (not classifiable as a human carcinogen); (ACGIH 2004).

MAK: (as Ba) (Inhalable fraction) 0.5 mg/m³; Peak limitation category: II(2); (DFG 2004).

Routes of exposure

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Inhalation risk

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.

Effects of short-term exposure

The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the nervous system. Exposure could cause hypokalaemia, resulting in cardiac disorders and muscular disorders. Exposure may result in death.

PHYSICAL PROPERTIES

Melting point: 113°C (see Notes)
Density: 3.86 g/cm³

Solubility in water, g/100 ml at 26°C: 37.5 (good))

ENVIRONMENTAL DATA

The substance is harmful to aquatic organisms.

NOTES

The apparent melting point caused by loss of crystal water is given.

Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available.

See also ICSC0614 Barium chloride.

Card has been partly updated in October 2005. See sections Occupational Exposure Limits, Emergency Response.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information