

**SAFETY DATA SHEET**  
BARIUM CHLORIDE SOLUTION

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**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Product name:** BARIUM CHLORIDE SOLUTION

**Product code:** RT1107

**Synonyms:** BARIUM CHLORIDE SOLUTION CODE NRR018

**Use / description of product:** Harmful. Liquid. Please note the small quantity - and refer to additional information on the last page of this MSDS

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

**Ingredient 1:** BARIUM CHLORIDE <10%

CAS: 10361-37-2

EINECS: 233-788-1

[Xn] R20; [T] R25;

**3. HAZARDS IDENTIFICATION**

**Main hazards:** Harmful if swallowed.

**Other hazards:** Irritating to eyes.

**4. FIRST AID MEASURES (SYMPTOMS)**

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**4. FIRST AID MEASURES (ACTION)**

**Skin contact:** Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** If conscious, give 1 pint of water to drink immediately. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Water spray. Carbon dioxide. Dry chemical powder.

**Exposure hazards:** In combustion emits toxic fumes.

**Protection of fire-fighters:** Wear self-contained breathing apparatus.

[cont...]

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**Personal precautions:** Refer to section 8 of SDS for personal protection details.

**Environmental precautions:** Do not allow large quantities to enter local drainage systems

**Clean-up procedures:** Wash down the drain with large amounts of water. Wash the spillage site with large amounts of water.

**7. HANDLING AND STORAGE**

**Handling requirements:** Avoid direct contact with the substance.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Hand protection:** Protective gloves.

**Eye protection:** Safety goggles. Face-shield.

**Skin protection:** Protective clothing with elasticated cuffs and closed neck.

**TWA (8 hr exposure limit):** 0.5 mg/m<sup>3</sup> (as Ba)

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Colourless

**Odour:** Odourless

**Viscosity:** Non-viscous

**Oxidising:** Non-oxidising (by EC criteria)

**Evaporation rate:** Slow

**Solubility in water:** Miscible in all proportions

**pH:** 7

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat.

**Haz. decomp. products:** In combustion emits toxic fumes.

**11. TOXICOLOGICAL INFORMATION**

**Effects of exposure** Nausea. Vomiting.

**Toxicity:** APP-CHEM BARIUM CHLORIDE SOLUTION  
ORL RAT LD50 1180mg/kg

**12. ECOLOGICAL INFORMATION****13. DISPOSAL CONSIDERATIONS**

**Waste disposal:** Dispose of as normal industrial waste.

**Disposal of packaging** Dispose of as normal industrial waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION****ADR / RID**

**UN no:** : none

[cont...]

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BARIUM CHLORIDE SOLUTION**IMDG / IMO****IATA / ICAO****15. REGULATORY INFORMATION****Hazard symbols:** Harmful.**Risk phrases:** R22: Harmful if swallowed.**Safety phrases:** S2: Keep out of the reach of children.

S28: After contact with skin, wash immediately with plenty of water

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.**16. ADDITIONAL INFORMATION****Additional information:** The information contained within this MSDS is based on bulk quantities. The user should bear in mind the reduced hazard associated with the small quantities normally associated with test kit reagents, and adjust their responses accordingly.**Risk phrases used in s.2:** R20: Harmful by inhalation.

R25: Toxic if swallowed.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.