SARGENT-WELCH
VWR SCIENTIFIC
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# IMPORTANT
## MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL
OSHA requires that this form be kept on file.

**Product No.** C3232R
**Product Name** BARIUM CHLORIDE, ANHYDROUS

**24 HOUR EMERGENCY ASSISTANCE**
**CHEMTREC 800-424-9300**

**HAZARD RATING**

4-EXTREME
3-SEVERE
2-MODERATE
1-SLIGHT
0-MINIMAL

| | |
|---|---|
| Health Hazard | 3 |
| Flammability | 0 |
| Reactivity | 0 |

## SECTION I NAME

| | |
|---|---|
| Chemical Synonyms | NONE |
| Formula | $BaCl_2$ |
| C.A.S. No. | 10361-37-2 |

## SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

| Principal Hazardous Component(s) | % | P.E.L. | TLV Units |
|---|---|---|---|
| *Barium Chloride (10361-37-2) | 99 | 0.5mg(Ba)/$mg^3$ | 0.5mg(Ba)/$mg^3$ |
| Contains 55.2% Barium (as the element) | | | |

★ chemical subject to the reporting requirements of SARA Title III.

## SECTION III PHYSICAL DATA

| | | | |
|---|---|---|---|
| Melting Point (°F) | 235° | Specific Gravity ($H_2O$=1) | 3.094 |
| Boiling Point (°F) | 2840° | Percent Volatile by Volume (%) | N/A |
| Vapor Pressure (mm Hg) | Negligible | Evaporation Rate ( ..... =1) | N/A |
| Vapor Density (Air=1) | N/A | | |
| Solubility in Water | Soluble | | |
| Appearance & Odor | White odorless crystals. | | |

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

| | | | | |
|---|---|---|---|---|
| Flash Point (Method Used) | None | Flammable Limits in Air % by Volume | Lower | Upper |
| | | N/A | N/A | N/A |
| Extinguisher Media | Dry chemical, carbon dioxide, water spray or foam. | | | |

**Special Firefighting Procedures**

Negligible fire hazard when exposed to heat or flame. Large fires in surrounding area may cause hazardous vapors. Keep upwind.

**Unusual Fire and Explosion Hazards**

Do not scatter spilled material with more water than needed for fire control.

**D.O.T.** Barium compounds, n.o.s. (Barium chloride), 6.1, UN1564, PGIII

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

## SECTION V HEALTH HAZARD DATA

**Threshold Limit Value**

See Section II

**Effects of Overexposure**

**Inhalation:** Dangerous to health. May cause skin irritation. Poisonous if swallowed. Solutions may be irritating to respiratory tract, skin, eyes and if ingested, will cause vomiting, violent diarrhea, abdominal pain.

**Emergency and First Aid Procedures**

Remove from exposure area. Remove contaminated clothing and wash area with soap and water. Wash eyes with large amounts of water. If swallowed, Induce vomiting and seek medical attention immediately.

## SECTION VI REACTIVITY DATA

| Stability | | Conditions to Avoid |
|---|---|---|
| Stable ☒ | Unstable ☐ | Bromine Trifluoride: rapidly attacks barium chloride: violent reaction. Organic matter: violent reaction |
| Incompatibility (Materials to Avoid) | | Keep away from combustible material. |
| Hazardous Decomposition Products | | Thermal decomposition products may include toxic and hazardous oxides of barium and corrosive Hydrochloric Acid. |
| Hazardous Polymerization | | Conditions to Avoid |
| May Occur ☐ | Will Not Occur ☒ | None reported. |

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be Taken in Case Material is Released or Spilled**

Take up with suitable inert absorbent material. Residue can be flushed to sewer with water.

**Waste Disposal Method**

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Treat with Epson Salts to precipitate barium as barium sulfate. This sludge can be taken to a landfill or washed to the sewer. Containers can be incinerated.

## SECTION VIII SPECIAL PROTECTION INFORMATION

| | | | | |
|---|---|---|---|---|
| Respiration Protection (Specify Type) | NIOSH approved dust mask. | | | |
| Ventilation | Local Exhaust | x | Special | ..... |
| | Mechanical (General) | x | Other | ..... |
| Protective Gloves | Rubber or Latex | Eye Protection | Safety Goggles | |
| Other Protective Equipment | Lab Coat. Eye Wash Station. | | | |

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing**

Keep container tightly closed when not in use.

Store in cool dry place away from combustible material.

**Other Precautions**

Read label on container before using. Do not wear contact lenses when working with chemicals.

None

**Approved by** Steven C. Quandt **Effective Date** 12/16/97

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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