

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

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SAFETY DATA SHEET
Calcium Bromide Solution 52%

1. Identification

- **Product Name:** Calcium Bromide Solution 52%
- **CAS Number:** 7789-41-5
- **Use:** Industrial and commercial applications, including as a **drill mud additive**.
- **Supplier/Manufacturer:** COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

2. Hazard Identification

- **Classification:** Serious Eye Damage (Category 1)
- **Signal Word:** **Warning**
- **Hazard Statement:** *H318 – Causes serious eye damage.*
- **Precautionary Measures:**
 - Wash exposed body parts after handling.
 - Wear **protective gloves, eye protection, face protection**.
 - If in eyes: Rinse for several minutes, remove contact lenses, and seek medical help.

3. Composition / Information on Ingredients

- **Chemical Name:** Calcium Bromide
- **CAS Number:** 7789-41-5
- **Concentration:** $\geq 52\%$

4. First-Aid Measures

- **Inhalation:** Seek medical attention if unwell.
- **Ingestion:** Seek medical attention if unwell.

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- **Skin Contact:** Wash with water for **5 minutes**. If irritation occurs, seek medical advice.
 - **Eye Contact:** Rinse with water for **30 minutes**, remove contact lenses if possible, and call a **poison center or doctor**.
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5. Fire Fighting Measures

- **Extinguishing Media:** Use suitable extinguishing agents for the surrounding fire.
 - **Unsuitable Extinguishing Media:** Avoid water jets.
 - **Special Equipment for Firefighters:** Use a NIOSH-approved self-contained breathing apparatus.
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6. Accidental Release Measures

- **Personal Protection:** Wear protective gear (refer to Section 8).
 - **Environmental Precautions:** Prevent spills from entering water sources.
 - **Cleanup Methods:**
 - **Small spills:** Use absorbents and flush the area with water.
 - **Large spills:** Contact emergency services.
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7. Handling and Storage

- **Precautions:** Inspect containers for leaks before handling.
 - **Storage Conditions:** Store in a **cool, dry, well-ventilated area** away from **acids**.
 - **Incompatible Materials:** **Acids** (e.g., sulfuric, nitric, hydrochloric, phosphoric, etc.).
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8. Exposure Controls / Personal Protection

- **Engineering Controls:** Use ventilation to minimize exposure.
- **Personal Protection:**
 - **Eyes & Face:** Wear safety goggles and a face shield.

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- **Hands & Body:** Avoid skin contact.
 - **Respiratory Protection:** Use protective gear if ventilation is insufficient.
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9. Physical and Chemical Properties

- **Appearance:** Clear, colorless to pale yellow liquid
 - **Odor:** Odorless
 - **pH (10% Solution):** 5.5 – 8.5
 - **Boiling Point:** ~129°C
 - **Flash Point:** >100°C
 - **Solubility:** Water-soluble
 - **Specific Gravity:** 1.70 – 1.73 g/mL at 20°C
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10. Stability and Reactivity

- **Reactivity:** **Hygroscopic** (absorbs moisture from air).
 - **Stability:** Stable under recommended storage conditions.
 - **Incompatible Materials:** **Acids.**
 - **Hazardous Decomposition Products:** **Hydrogen bromide, bromine gas.**
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11. Toxicological Information

- **Acute Toxicity (LD50):**
 - **Oral (Rat):** 2210 mg/kg
 - **Dermal (Rabbit):** >2000 mg/kg
- **Effects:**
 - **Inhalation:** May cause respiratory irritation.
 - **Ingestion:** May cause nausea.

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- **Eye Contact:** Causes **serious eye damage**.
 - **Carcinogenicity / Mutagenicity / Reproductive Toxicity:** No known effects.
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12. Ecological Information

- **Ecotoxicity:**
 - **Sodium Bromide NOEC (Marine algae):** 1000 mg/L (72 hours)
 - **NOEC (Daphnia magna):** 100 mg/L (48 hours)
 - **LC50 (Marine fish):** >342 mg/L (96 hours)
 - **Biodegradability:** Persistent in the environment.
 - **Bioaccumulation:** Non-bioaccumulative.
 - **Mobility:** Soluble in water; may contaminate groundwater.
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13. Disposal Considerations

- Dispose of according to federal, provincial, and local regulations.
 - Do not reuse or remove labeling from empty containers.
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14. Transport Information

- **UN Number:** Not classified as dangerous goods.
- **Environmental Hazards:** Not listed as a marine pollutant.
- **Special Precautions:** Secure containers to prevent leaks during transport.