



MATERIAL SAFETY DATA SHEET

Product Name Calcium Bromide Brine
Product id 1390S
Revision date 17/01/2006 **Revision: 5**
Supersedes 20/10/2002

1. Identification of the substance & the company

Chemical name Calcium bromide water solution
Chemical family Inorganic bromide
Molecular weight 199.88
Type of product and use For use in completion and workover fluids.
Supplier Ameribrom, INC.
2115 Linwood Avenue, Fort Lee, New Jersey 07024-5004
USA Tel: 201 242 6560
Emergency Telephone Chemtrec (800)424-9300

2. Composition / information on ingredients

Components CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
Calcium Bromide 7789-41-5	52	Not determined	Not determined

3. Hazards identification

Emergency overview *Colourless liquid, odourless*
Risk of serious damage to eyes

Potential Health Effects:

- Eye Contact Severe irritant.
- Skin contact Irritant
- Inhalation Irritant to upper respiratory tract.
- Ingestion Abdominal pain, nausea and vomiting. May cause falling asleep, muscular incoordination and respiratory depression.



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4. First-aid measures

Eye contact Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.

Skin contact Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before re-use. Get medical attention immediately.

Inhalation In case of mist inhalation or breathing fumes released from heated material, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

Ingestion If swallowed, wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately.

NOTE: Never give an unconscious person anything to drink.

Notes to the physician Severe irritant
No specific antidote. In case of ingestion DO NOT induce vomiting. Treat symptomatically and supportively.

5. Fire - fighting measures

Flash point None

Flammable/Explosion limits Not flammable

Auto-ignition temperature Not applicable

Suitable extinguishing media Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions.

Fire fighting procedure Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

Unusual fire and explosion hazards CaBr₂ will decompose slowly from ca. 700°C, releasing poisonous and corrosive fumes of hydrogen bromide and bromine.

6. Accidental release measures

Personal precautions Wear respirator, chemical safety goggles, rubber gloves and boots.

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Methods for cleaning up Absorb on sand or vermiculite and place in closed container for disposal.
 Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

Handling	Keep containers tightly closed. Avoid bodily contact.
Storage	Keep in a well-ventilated place away from incompatible materials (see "materials to avoid").

8. Exposure controls / personal protection

Ventilation requirements	Provide adequate ventilation. Use local exhaust as necessary, especially under misting conditions.
Personal protective equipment:	
- Respiratory protection	Approved respirator
- Hand protection	Protective gloves
- Eye protection	Chemical safety goggles
- Skin and body protection	Body covering clothes and boots
Hygiene measures	Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking

9. Physical and chemical properties

Appearance	Colourless liquid, odourless
Melting point/range	< -7°C
Boiling point/range	130°C
Vapour pressure	Not available
Vapor density	Not available
Evaporation rate (ether=1)	As of water
Solubility:	
- Solubility in water	For CaBr ₂ 100%: 142 g/100ml at 30°C 312 gr/100ml at 100°C
- Solubility in other solvents	Acetone Pyridine Alcohol



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Specific gravity	1.7
Decomposition temperature	>700 °C (CaBr ₂ 100%)

10. Stability and reactivity

Stability	Stable under normal conditions
Materials to avoid	Avoid strong acids and oxidizers
Conditions to avoid	Heating above decomposition temperature
Hazardous decomposition products	Hydrogen bromide and bromine
Hazardous polymerization	Will not occur

11. Toxicological information

Note: The toxicological data presented below are the results of studies conducted on an active ingredient CaBr₂.

Acute toxicity:

- Rat oral LD₅₀ 2210 mg/kg
- Eye irritation (rabbit) Severe irritant
- Dermal irritation (rabbit) Moderate irritant

Chronic toxicity Repeated skin contact may cause dermatitis.
Repeated oral intake of bromides (>9 mg/kg body weight/day) may affect the central nervous system. Warning symptoms include mental dullness, slurred speech, weakened memory, apathy, anorexia, constipation, drowsiness and loss of sensitivity to touch and pain.

Mutagenicity Not mutagenic by the Ames Test

Carcinogenicity Not classified by IARC.
Not included in NTP 11th Report on Carcinogens.

12. Ecological information

Aquatic toxicity :

- 48 Hour-EC₅₀, Daphnia magna >105 mg/l (For CaBr₂ 95%)

13. Disposal considerations

Waste disposal Drain into sewer with ample water.
Observe all federal, state and local environmental regulations when disposing of this material.



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14. Transportation information

DOT	Not regulated
IMO	Not regulated
ICAO/IATA	Not regulated

15. Regulatory information

USA	Reported in the EPA TSCA Inventory
Canada	Listed in DSL
EEC No.	232-164-6
Japanese METI	ENCS No.: 1-1038
Australia	Listed in AICS
China inventory	Listed
Korea	Listed in ECL (KE-04485)
Philippines	Listed in PICCS
Switzerland	Listed in Giftliste 1 (G-7923)

16. Other information

This data sheet contains changes from the previous version in section(s)

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Health, Safety & Environment Policy

We will strive to ensure that our operations and products meet the needs of the present global community without compromising the ability of future generations to meet their needs

We accept that the success of our business is dependent on the supply of products and services that will benefit society whilst ensuring human safety and protection of the environment and natural resources

Within the framework of our commitment to the Responsible Care program, we will provide a healthy and safe work environment for employees and will responsibly manage our products at all stages of their life cycle in order to protect human health and the environment whilst maintaining high production standards of operation

TO MEET THIS COMMITMENT WE WILL:

- Comply with or exceed applicable national and international regulatory requirements and other requirements to which we subscribe
- Communicate openly and actively encourage dialogue with employees, customers and community concerning our products and operations
- Implement documented management systems consistent with and for promotion of the Responsible Care ethics
- Develop and supply products that can be manufactured, transported, used and disposed of safely whilst best meeting the needs of our customers
- Regularly assess, continually improve and responsibly manage health, safety and environmental risks associated with products and processes throughout their life-cycles
- Share knowledge and expertise with others and seek to learn from and incorporate improved practices into our own operations
- Educate and train employees, contractors and customers to improve their HSE performance
- Communicate up-to-date information to enable our workers, customers and other interested parties to handle our products in a safe and environmentally responsible manner
- Endeavor to work with customers, suppliers, distributors and contractors to foster the safe use, transport and disposal of our chemicals
- Support Product Stewardship programs in cooperation with customers, distributors and transporters

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Prepared By	HSE Division in ISRAEL telephone: +/972-8-6297830 telefax: +/972-8-6297832 www.icl-ip.com
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End of safety data sheet