Lith™

LITHIUM BROMIDE, Molybdate Inhibited

50% w/w Solution

CAS Number: 7550-35-8
Chemical Formula: LiBr

PRODUCT DESCRIPTION

Lithium Bromide Molybdate Inhibited 50% Solution is a concentrated aqueous lithium bromide solution containing lithium molybdate as a corrosion inhibitor. It is designed for use in absorption refrigeration and air-conditioning systems, where lithium bromide absorbs water vapour to support the cooling cycle. The molybdate inhibitor helps provide corrosion protection for compatible system components.

KEY FEATURES

- Lithium bromide concentration of 49.5–50.5% by weight
- Contains lithium molybdate corrosion inhibitor
- High affinity for water vapour
- Clear to slightly hazy, colourless aqueous solution
- Suitable for absorption-based cooling systems
- Controlled levels of specified inorganic impurities

APPLICATIONS

- Absorption chillers using water as the refrigerant
- Industrial air-conditioning systems
- Absorption refrigeration systems
- Moisture absorption in industrial cooling applications

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LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.

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This document is subject to revision without notice as new data becomes available.

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PRODUCT SPECIFICATIONS

PARAMETER	TYPICAL VALUE
Appearance	Clear or slightly hazy, colourless aqueous solution
Lithium Bromide (LiBr), wt.%	49.5–50.5
Lithium Molybdate (Li_2MoO_4), wt.%	0.013–0.017
Calcium (Ca)	≤20 ppm
Magnesium (Mg)	≤10 ppm
Sulfate (SO_4), wt.%	≤0.02
Chloride (Cl), wt.%	≤0.05
Alkalinity (as LiOH), N	0.06–0.07
Insoluble Solids, wt.%	≤0.01
Density at 20°C	1.6 g/mL
Foaming	Passes test

PACKAGING

Available in 25 kg drums and 1,000 kg intermediate bulk containers (IBCs). Alternative packaging options may be available upon request.

STORAGE & HANDLING

Store in tightly sealed, corrosion-resistant containers in a cool, dry, well-ventilated area. Keep containers closed when not in use and protect from contamination. Avoid prolonged contact with skin and eyes. In the event of skin contact, rinse immediately with plenty of water.

SAFETY

Harmful if swallowed and may cause irritation to the eyes and respiratory system. Avoid ingestion and direct contact with skin and eyes. Wear appropriate personal protective equipment, including chemical-resistant gloves and safety glasses.

Refer to the current Safety Data Sheet (SDS) for detailed information on hazards, safe handling, storage, transport and disposal.