

MATERIAL SAFETY DATA SHEET

CHEMTREC # 1-800-424-9300

NATIONAL RESPONSE CENTER # 1-800-424-8802

Date: 6-13-13

Revision: C

1. IDENTIFICATION

Product Name: LB® conductive medium (20X)

Catalog Numbers: LB20-1 (1 liter), LB20-4 (4 liter), LB20-10 (10 liter), etc.

Chemical Name: Aqueous solution of lithium ion, borate ion, and boric acid as the major conductive species.

2. HAZARD IDENTIFICATION RATING SYSTEM

HEALTH: 1 Slight

FLAMMABILITY: 0 Nonflammable

REACTIVITY: 1 Slight

CONTACT: 2 Moderate

3. INGREDIENTS

This product contains hazardous ingredients: Yes

This product contains carcinogens: No

This product is proprietary: Yes

Chemical Name	CAS #	W/v	%
Dilithium borate	12007-60-2	not more than 40 g/L	not more than 4.0
Boric Acid	10043-35-3	not more than 40 g/L	not more than 4.0
Water	7732-18-5	N/A	

4. FIRST-AID MEASURES

IN THE EVENT OF ANY CHEMICAL EXPOSURE, PLEASE SEEK MEDICAL ATTENTION

PROCEDURES:

INGESTION: Repeatedly rinse mouth with water. Drink large quantities of water. Get medical attention if irritation persists.

SKIN CONTACT: Immediately wash skin with soap and flush with large amounts of water for at least 15 minutes. Get medical attention if contact area remains irritated.

EYE CONTACT: Immediately flush eyes with large amounts of water for at least 15 minutes. Get medical attention if eye(s) remain irritated.

FOR EMERGENCY EXPOSURE INFORMATION: Call 1-800-424-8802 (Nat'l Response Center)

5. FIRE AND EXPLOSION

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use extinguishing media appropriate to surrounding fire conditions.

UNUSUAL FIRE AND EXPLOSION HAZARDS

May emit toxic fumes of lithium oxides and boron oxides under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Wear protective clothing and safety glasses or goggles while cleaning up the spill. Minimize spread of liquid using appropriate absorbent material. Place in closed containers for disposal.

7-8. HANDLING AND STORAGE, PERSONAL PROTECTION

May cause eye and skin irritation. During use, avoid contact with eyes, skin, and clothing.

Wear safety glasses, lab coat and gloves. Wash thoroughly after handling.

Store in tightly closed container at room temperature.

9. PHYSICAL PROPERTIES

Physical State:	Liquid
pH:	8.2
Appearance/Odor:	Clear, colorless, odorless
Flash Point:	N/A

10. STABILITY AND REACTIVITY

Stable.

11. TOXICOLOGICAL INFORMATION

Lithium has nervous system toxicity. Signs and symptoms: large doses of lithium have caused dizziness and prostration, and can cause kidney damage if sodium intake is limited. Dehydration, weight loss, dermatological effects, and thyroid disturbances have been reported. Central nervous system effects that include slurred speech, blurred vision, sensory loss, ataxia, and convulsions may occur. Diarrhea, vomiting, and neuromuscular effects such as tremor, clonus, and hyperactive reflexes may occur as a result of repeated exposure to lithium ion. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

The solution may cause acute or chronic irritation of skin, eyes and mucous membranes.

12. ECOLOGICAL INFORMATION

Boric acid and ions of lithium will tend to remain in water with little tendency to bind to soil or sediment; they have a low potential for bioconcentration and are not likely to accumulate in the food chain. Boric acid is considered moderately toxic (LC50/EC50 between 1 and 10 mg/L for the most sensitive species).

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable Federal, State and Local environmental regulations.

14. TRANSPORT INFORMATION

This product is not regulated by the US Department of Transportation (DOT) and is therefore not considered a hazardous material/substance. It has no UN number for international transport, and is not regulated under international rail, road, water, or air transport regulations.

15. REGULATORY INFORMATION

This product is for research use only. This product has not been approved for diagnostic or therapeutic use. Wear safety glasses, lab coat, and proper gloves.

16. OTHER INFORMATION

None

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, HOWEVER, IT MAY NOT BE ALL-INCLUSIVE. THIS INFORMATION SHOULD BE USED ONLY AS A

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