



# MSDS

P.O. Box 329 - 802 Washington Avenue Chestertown, MD 21620 - USA

## MATERIAL SAFETY DATA SHEET

TELEPHONE # FOR INFORMATION 410 778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;

Outside North American Continent 813-248-0585 (call Collect)

### 1. Product Identification

**Product Code:** 4135

**Product Description:** Borate Buffer pH 5.5

**Manufactured By:** LaMotte Company  
802 Washington Avenue  
Chestertown, MD 21620

### 2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	1303-96-4 Sodium Tetraborate, 10-Hydrate	0.1	5 mg/cubic m	5 mg/cubic m
Yes	10043-35-3 Boric Acid	4	N/E	N/E
No	7732-18-5 Water	to 100%		

### 3. Hazards Overview

**Primary Route Of Entry:** Skin Ingestion

May irritate eyes and skin. Harmful if swallowed.

#### HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Health: 1      Flammability: 0      Reactivity: 0

**Carcinogenicity:** None:

#### **Other Health Related Comments:**

See Section 11, Toxicity

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#### **4. First Aid Measures**

**Eye Contact:** Flush with water for 15 minutes.

**Skin Contact:** Flush with water. Wash with soap and water.

**Ingestion:** Give water with milk of magnesia or milk & induce vomiting. Get prompt medical attention.

**Inhalation:** N/A

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#### **5. Fire Fighting Measures**

**Flash Point (Method Used):** N/A

**LEL:** N/A

**UEL:** N/A

**Extinguishing Media:** Not a fire hazard

**Special Fire Fighting Procedures:** N/A

**Unusual Fire & Explosion Hazard:** N/A

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#### **6. Accidental Release Measures**

Mop up and flush down drain with water.

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#### **7. Handling & Storage**

Store tightly closed in cool, dry place away from heat, direct sunlight, and incompatible materials.

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## **8. Exposure Controls/Personal Protection**

### **Ventilation**

Normal

### **Protection When Handling**

Eye Protection Gloves lab coat

**Work/Hygenic Practices:** Wash after handling.

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## **9. Physical & Chemical Properties**

**Appearance:** Clear Colorless Liquid

**Solubility In Water:** Soluble

**Odor:** None

**pH:** 5.5

**Vapor Density:** <1 (Air=1)

**Vapor Pressure:** <17 mm Hg @ 20 deg C

**Boiling Point:** ca. 100 deg C

**Melting Point:** N/A

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## **10. Stability & Reactivity**

**Stable:** Yes

**Conditions To Avoid:** N/A

**Incompatibility (Materials To Avoid):** N/A

**Hazardous Decomposition Products:** N/A

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## **11. Toxicological Information**

Oral rat LD50: 2660 mg/kg for boric acid solid. Oral woman LDLo: 200 mg/kg; Adult fatal dose reported at 5 - 30 grams. Chronic exposures may cause renal injury. Investigated as a mutagen, tumorigen, reproductive effector.

**Target Organs:** Liver Skin

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## **12. Ecological Information**

This material (boric acid component) may be toxic to aquatic life

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## **13. Disposal Considerations**

Flush down drain with water. Dispose according to federal, state and local regulations.

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## **14. Transportation Information**

Not Regulated For Transport

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## **15. Regulatory Information**

### **Chemical Inventory Status**

Hazard	Ingredient	USA TSCA	Europe EC	--- Canada --- DSL NDSL		Australia	Japan
Yes	1330-43-4 Borates, Tetra, Sodium Salts (anhydrous)	Yes	Yes	Yes	No	Yes	Yes
Yes	10043-35-3 Boric Acid	Yes	Yes	Yes	No	Yes	Yes
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

### **Federal, State, & International Regulations**

Ingredient	--- SARA 302 ---		----- SARA 313 -----		CERCLA	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category			
1330-43-4 Borates, Tetra, Sodium Salts (anhydrous)	No	No	No	No	No	No	No
10043-35-3 Boric Acid	No	No	No	No	No	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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**--- SARA 311/312 ---****Hazard Categories****----- Australia -----****Hazchem****Poison****This MSDS Is****Ingredient    Acute    Chronic    Fire    Pressure    Reactivity    Code    Schedule    WHMIS Compliant**

1330-43-4    Yes    Yes    No    No    No    None Allocated    S5  
Borates, Tetra, Sodium Salts (anhydrous)

10043-35-3    Yes    Yes    No    No    No    None Allocated    S5  
Boric Acid

7732-18-5    No    No    No    No    No    None Allocated    None Allocated  
Distilled Water

**product**    Yes    No    No    No    No    None Allocated    None Allocated    Yes  
**4135**  
**as a whole**

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**16. Other Information**

**Prepared By:** IP, Regulatory Affairs Department

**Revised:** 1/30/2007

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