



# 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:** 6484

**Product Description:** Molybdenum Buffer Reagent

**Manufactured By:** LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

### 2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	13472-36-1 Sodium Pyrophosphate, 10-Hydrate	<2	None Established	5 mg/m <sup>3</sup>
Yes	110-15-6 Succinic Acid	6	None Established	None Established
Yes	108-88-3 Toluene	<0.2	100 ppm (airborne)	50 ppm (skin)
No	7732-18-5 Water	>92	None Established	None Established

### 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:**

Succinic acid: investigated as a mutagen. Toluene: investigated as a mutagen, tumorigen, & reproductive effector.

WARNING! This product contains Toluene, a chemical known to the State of California to cause cancer or reproductive harm.

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

**Eye Contact:** Flush with water for 15 minutes while lifting upper and lower eyelids. If irritation persists, contact physician.

**Skin Contact:** Flush thoroughly with water for 15 minutes while removing affected clothing/shoes. If irritation persists, contact physician. Wash clothing before re

**Ingestion:** Large amounts may cause irritation to the G.I. tract. If swallowed, drink several glasses of water and contactt physician if irritation develops.

**Inhalation:** Remove to fresh air.

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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**

Absorb onto inert material, place into chemcial waste container, and hold for disposal. Dispose according to federal, state, and local regulations. If permitted, flush to drain with copious amounts of water.

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

Store in cool, dry, storage area away from incompatible materials.

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

### **Ventilation**

Normal

### **Protection When Handling**

Eye Protection Gloves Lab Coat

**Work/Hygenic Practices:** Avoid contact with eyes and skin. Wash after handling.

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

**Appearance:** Clear Colorless Liquid

**Solubility In Water:** Soluble

**Odor:** None

**pH:** 3 (slightly acidic)

**Vapor Density:** Not known

**Vapor Pressure:** <17 mmHg @ 20°C

**Boiling Point:** ca. 100°C

**Melting Point:** Not known

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## **10. Stability & Reactivity**

**Stable:** Yes

**Conditions To Avoid:** N/A

**Incompatibility (Materials To Avoid):** Oxidizers, reducers

**Hazardous Decomposition Products:** PO<sub>x</sub>, CO<sub>x</sub>, SO<sub>x</sub>

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## **11. Toxicological Information**

Oral rat LD50: 2260 mg/kg for Succinic acid; 636 mg/kg for Toulene.

**Target Organs:** Skin

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**12. Ecological Information**

Information Not Yet Available

**13. Disposal Considerations**

Dispose according to federal, state, and local regulations.

**14. Transportation Information**

Not Regulated For Transport

**15. Regulatory Information**

**Chemical Inventory Status**

Hazard	Ingredient	USA	Europe	--- Canada ---		Australia	Japan
		TSCA	EC	DSL	NDSL		
Yes	7722-88-5 Sodium pyrophosphate, anhydrous	Yes	Yes	Yes	No	Yes	Yes
Yes	110-15-6 Succinic Acid	Yes	Yes	Yes	No	Yes	Yes
Yes	108-88-3 Toluene	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			
7722-88-5 Sodium pyrophosphate, anhydrous	No	No	No	No	No	No	No
110-15-6 Succinic Acid	No	No	No	No	No	No	No
108-88-3 Toluene	No	No	Yes	No	1000	U220	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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--- SARA 311/312 ---

----- Australia -----

**Hazard Categories**

**Hazchem  
Code**

**Poison  
Schedule**

**This MSDS Is  
WHMIS Compliant**

**Ingredient**   **Acute**   **Chronic**   **Fire**   **Pressure**   **Reactivity**

7722-88-5   Yes   Yes   No   No   No   None Allocated   None Allocated  
Sodium pyrophosphate, anhydrous

110-15-6   Yes   No   No   No   No   None Allocated   None Allocated  
Succinic Acid

108-88-3   Yes   Yes   Yes   No   No   3[Y]E   S6  
Toluene

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

**product 6484**   Yes   No   No   No   No   None Allocated   None Allocated   Yes  
**as a whole**

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**16. Other Information**

Keep out of reach of children.

**Prepared By:** Regulatory Affairs Department

**Revised:** 4/29/2009

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