



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

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:** 7140

**Product Description:** Acidified Catalyst

**Manufactured By:** LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

### 2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	7664-93-9 Sulfuric Acid	30 - 40	1 mg/m <sup>3</sup> (TWA)	0.2 mg/m <sup>3</sup> (T) (TWA)
Yes	10102-40-6 Sodium Molybdate Dihydrate	12	5 mg/cubic m (Mo) soluble	0.5mg/cubic m (Mo) sol, inhl
No	7732-18-5 Water	to 100%	None Established	None Established

### 3. Hazards Overview

**Primary Route Of Entry:** Skin Ingestion Inhalation

Poison! Danger! Corrosive. Liquid and mist cause severe burns to all body tissue. Inhalation may cause coughing, chest pains, damage to lungs. Ingestion may be fatal. Reacts with water, bases, and other materials.

#### HMIS Hazard

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

Health: 4      Flammability: 0      Reactivity: 2

**Carcinogenicity:** None:

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

IARC has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC category 1). This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions.

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

**Eye Contact:** Immediately flush with water for 15 minutes while lifting upper and lower eyelids. Call a physician immediately.

**Skin Contact:** Flush w/ water for 15 minutes while removing affected clothing. Neutralize excess acid on skin w/ 2% bicarb sol'n. Call a physician immediately.

**Ingestion:** DO NOT induce vomiting. Give large quantities of water. Call a physician immediately.

**Inhalation:** Remove to fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen.

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

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

**LEL:** N/A

**UEL:** N/A

**Extinguishing Media:** Dry chemical or CO<sub>2</sub>, not water

**Special Fire Fighting Procedures:** Wear protective equipment and self-contained breathing apparatus.

**Unusual Fire & Explosion Hazard:** Reacts violently with water. Can react with metals to produce flammable, explosive hydrogen gas.

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

Wear PPE and ventilate area. Neutralize with alkaline material (bicarb, soda ash, lime), scoop up or absorb with inert material, containerize, and hold for disposal. Dispose according the federal, state, and local regulations.

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

Store in cool, dry, ventilated storage area. Keep out of direct sunlight, and away from heat, water, and incompatible materials, such as strong bases, metals, combustibles, sulfides and cyanides.

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

### **Ventilation**

Mechanical

### **Protection When Handling**

Eye Protection Gloves Lab Coat

**Work/Hygenic Practices:** Avoid contact with skin, eyes, and clothing; avoid inhalation of vapor. Wash after handling.

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

**Appearance:** Clear Colorless Liquid

**Solubility In Water:** Soluble

**Odor:** Odorless

**pH:** <1

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

**Vapor Pressure:** <10 mm Hg @ 20° C

**Boiling Point:** Unknown

**Melting Point:** Unknown

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## **10. Stability & Reactivity**

**Stable:** Yes

**Conditions To Avoid:** Heat, moisture

**Incompatibility (Materials To Avoid):** Water, metals, organic or combustible materials, and strong bases.

**Hazardous Decomposition Products:** SO<sub>x</sub>, hydrogen gas

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## **11. Toxicological Information**

Oral rat LD50: 2140 mg/kg for concentrated sulfuric acid.

**Target Organs:** Corrosive to all body parts Eyes Respiratory System Skin

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## **12. Ecological Information**

Information Not Yet Available

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## **13. Disposal Considerations**

Dispose according to federal, state, and local regulations.

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## **14. Transportation Information**

### **Proper Shipping Name:**

**DOT:** SULFURIC ACID  
<51% ACID

**IATA:** SULPHURIC ACID  
<51% ACID

### **Hazard Class/Div:**

**DOT:** 8

**IATA:** 8

**UN:** 2796

**Packing Group:** II

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## **15. Regulatory Information**

### **Chemical Inventory Status**

Hazard	Ingredient	USA	Europe	--- Canada ---		Australia	Japan
		TSCA	EC	DSL	NDSL		
Yes	7664-93-9 Sulfuric Acid	Yes	Yes	Yes	No	Yes	Yes
Yes	7631-95-0 Sodium Molybdate, anhydrous	Yes	Yes	Yes	No	Yes	Yes
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

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**Federal, State, & International Regulations**

<b>Ingredient</b>	<b>--- SARA 302 ---</b>		<b>----- SARA 313 -----</b>		<b>CERCLA</b>	<b>RCRA 261.33</b>	<b>TSCA 8(D)</b>
	<b>RQ</b>	<b>TPQ</b>	<b>Listed</b>	<b>Chemical Category</b>			
7664-93-9 Sulfuric Acid	1000	1000	Yes	No	1000	No	No
7631-95-0 Sodium Molybdate, anhydrous	No	No	No	No	No	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

<b>Ingredient</b>	<b>Acute</b>	<b>--- SARA 311/312 --- Hazard Categories</b>				<b>----- Australia -----</b>		<b>This MSDS Is WHMIS Compliant</b>
		<b>Chronic</b>	<b>Fire</b>	<b>Pressure</b>	<b>Reactivity</b>	<b>Hazchem Code</b>	<b>Poison Schedule</b>	
7664-93-9 Sulfuric Acid	Yes	Yes	No	No	Yes	2P	None Allocated	
7631-95-0 Sodium Molybdate, anhydrous	Yes	No	No	No	No	None Allocated	None Allocated	
7732-18-5 Distilled Water	No	No	No	No	No	None Allocated	None Allocated	
<b>product 7140 as a whole</b>	Yes	Yes	No	No	Yes	2P	None Allocated	Yes

**16. Other Information**

Keep out of the reach of children.

**Prepared By:** Regulatory Affairs Department

**Revised:** 8/31/2009