



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: 6090

Product Description: Sulfuric Acid, 0.5N or
Chloride E

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 | 2.4 | 1 mg/m ³ (TWA) | 0.2 mg/m ³ (T) (TWA) |
| No | 7732-18-5 Water | to 100% | None Established | None Established |

3. Hazards Overview

Primary Route Of Entry: Eye Skin Ingestion

Warning! Corrosive. Can cause severe irritation or burns to all body tissue. Harmful if swallowed.

HMIS Hazard

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

Health: 2 Flammability: 0 Reactivity: 1

Carcinogenicity: Yes: IARC

Other Health Related Comments:

(IARC Category 1) IARC has classified "Strong inorganic acid mists containing sulfuric acid" as a known human carcinogen. Concentrated Sulfuric acid has been investigated as a tumorigen, mutagen, reproductive effector.

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4. First Aid Measures

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

Skin Contact: Flush area with water while removing affected clothing/shoes. If irritation develops, contact physician. Wash clothing prior to reuse.

Ingestion: Do not induce vomiting, unless directed to do so by medical personnel. Drink several glass of water/milk. Contact physician.

Inhalation: Remove to fresh air.

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

6. Accidental Release Measures

Neutralize spill with alkaline material (sodium bicarb/soda ash). Scoop up slurry, place in chemical waste container, and hold for disposal. Dispose according to federal, state, and local regulations. If permitted, wash down drain with excess water.

7. Handling & Storage

Store in cool, dry, storage area away from incompatible materials. Keep out of reach of children.

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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 skin, eyes, and clothing. Wash after handling.

9. Physical & Chemical Properties

Appearance: Clear Colorless Liquid

Solubility In Water: Soluble

Odor: None

pH: 1

Vapor Density: Unknown

Vapor Pressure: Unknown

Boiling Point: Unknown

Melting Point: Unknown

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: Heat

Incompatibility (Materials To Avoid): Metals, strong bases

Hazardous Decomposition Products: SO_x when heated to decomposition

11. Toxicological Information

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

Target Organs: Eyes Skin

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12. Ecological Information

Environmental Toxicity: This material may be toxic to aquatic life. LC50 FLOunder 100-330mg/L/48hr aerated water.; LC50 Shrimp 80-90mg/L/48hr aerated water.

13. Disposal Considerations

Dispose of in accordance to federal, state, and local regulations.

14. Transportation Information

Proper Shipping Name:

DOT: SULFURIC ACID
WITH NOT MORE THAN 51% ACID

IATA: SULPHURIC ACID
WITH NOT MORE THAN 51% ACID

Hazard Class/Div:

DOT: 8

IATA: 8

UN: 2796

Packing Group: II

15. Regulatory Information

Chemical Inventory Status

| Hazard | Ingredient | USA TSCA | Europe EC | --- Canada --- DSL NDSL | | Australia | Japan |
|--------|------------------------------|-------------|--------------|----------------------------|----|-----------|-------|
| Yes | 7664-93-9 Sulfuric 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 | | | |
| 7664-93-9 Sulfuric Acid | 1000 | 1000 | Yes | No | 1000 | 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
Code**

**Poison
Schedule**

**This MSDS Is
WHMIS Compliant**

Ingredient

Acute

Chronic

Fire

Pressure

Reactivity

7664-93-9
Sulfuric Acid

Yes

Yes

No

No

Yes

2P

None Allocated

7732-18-5
Distilled Water

No

No

No

No

No

None Allocated

None Allocated

**product 6090
as a whole**

Yes

No

No

No

Yes

None Allocated

None Allocated

Yes

16. Other Information

Keep out of reach of children.

Prepared By: Regulatory Affairs Department

Revised: 5/4/2009
