



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: 3992

Product Description: Chlorine/Bromine Titrant

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	<1%	1 mg/cubic m	1 mg/cubic m
Yes	63589-59-3 Ferrous Ethylenediammonium Sulfate	0.1	N/E	N/E
No	7732-18-5 Water	to 100%		

3. Hazards Overview

Primary Route Of Entry: Skin Ingestion

May be irritating to eyes and skin or 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.

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4. First Aid Measures

Eye Contact: Flush with water for 15 minutes.

Skin Contact: Flush thoroughly with water while removing affected clothing. Wash skin with soap and water.

Ingestion: Rinse out mouth. Drink 1-2 glasses of water. Consult physician.

Inhalation: N/A

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 to pH 7 with baking soda (sodium bicarbonate). Mop up and flush down drain with excess water.

7. Handling & Storage

Store in cool, dry, storage area.

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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. Wash after handling.

9. Physical & Chemical Properties

Appearance: Clear Colorless Liquid

Solubility In Water: Soluble

Odor: None

pH: 2

Vapor Density: <1 (Air=1)

Vapor Pressure: <17 mm Hg @ 20 deg C

Boiling Point: ca. 100 deg C

Melting Point: ca. 0 deg C

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: Temperature extremes

Incompatibility (Materials To Avoid): N/A

Hazardous Decomposition Products: N/A

11. Toxicological Information

Product is slightly acidic (pH = 2) and may cause irritation of esophagus and stomach if large amount is swallowed. Direct contact with eyes or skin may also cause irritation.

Target Organs: Skin

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12. Ecological Information

Information Not Yet Available

13. Disposal Considerations

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

14. Transportation Information

Not Regulated For Transport

15. Regulatory Information

Chemical Inventory Status

Hazard	Ingredient	USA TSCA	Europe EC	--- Canada ---		Australia	Japan
				DSL	NDSL		
Yes	7664-93-9 Sulfuric Acid	Yes	Yes	Yes	No	Yes	Yes
Yes	63589-59-3 Ferrous Ethylenediammonium Sulfate	Yes	?	Yes	No	?	?
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
63589-59-3 Ferrous Ethylenediammonium Sulfate	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**

7664-93-9 Yes Yes No No Yes 2P None Allocated
Sulfuric Acid

63589-59-3 No No No No No None Allocated None Allocated
Ferrous Ethylenediammonium Sulfate

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
3992
as a whole

16. Other Information

Prepared By: IP, Regulatory Affairs Department

Revised: 6/7/2006
