



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: 5703

Product Description: Nitrogen Indicator Powder

Manufactured By: LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	10034-96-5 Manganous Sulfate Monohydrate	1.5	C 5 mg/cubic m (comp. as Mn)	0.2 mg/cubic m (inorg comp as Mn)
Yes	7440-66-6 Zinc Dust	6	N/E	10 mg/cubic m, ZnO fume
Yes	7727-43-7 Barium Sulfate	63	10 mg/cubic m total dust	10 mg/cubic m total dust
Yes	63-74-1 Sulfanilamide	<1	N/E	N/E
Yes	1465-25-4 N-1-Naphthyl-ethylenediamine dihydrochloride	<1	N/E	N/E
Yes	57-50-1 Sugar	28	5 mg/cubic m (respirable)	10 mg/cubic m (total dust)

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Hazards Overview

Primary Route Of Entry: Ingestion Inhalation Skin

Harmful by dust inhalation and if swallowed. May cause skin irritation.

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:

Both manganese sulfate and sulfanilamide are possible mutagens; mutagens can cause heritable genetic damage.

4. First Aid Measures

Eye Contact: Flush thoroughly with water. Consult physician if irritation persists.

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

Ingestion: Drink water. Consult a 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

Small quantity: Sweep up, dissolve in water and flush down drain with excess water. Large quantity: Sweep up. Place in clean, dry, closed container. Send to approved landfill or to hazardous waste disposal.

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7. Handling & Storage

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

8. Exposure Controls/Personal Protection

Ventilation

Mechanical

Use with good ventilation.

Protection When Handling

Eye Protection Gloves Lab Coat

Work/Hygenic Practices: Avoid contact with skin and clothing and inhalation of dust. Wash after handling.

9. Physical & Chemical Properties

Appearance: Off white Powder

Solubility In Water: Partial

Odor: None

pH: 6 (0.1g/10mL water)

Vapor Density: N/A

Vapor Pressure: N/A

Boiling Point: N/A

Melting Point: Unknown

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: Heat, moisture

Incompatibility (Materials To Avoid): Strong acids

Hazardous Decomposition Products: N/A

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1. Toxicological Information

Manganous sulfate monohydrate: Oral rat LD50: 2150 mg/kg. Anhydrous investigated as a tumorigen, mutagen, reproductive effector.

Target Organs: Skin

12. Ecological Information

Information Not Yet Available

13. Disposal Considerations

Dispose according to federal, state and local regulations.

4. Transportation Information

Not Regulated For Transport

15. Regulatory Information

Chemical Inventory Status

Hazard	Ingredient	USA	Europe	--- Canada ---		Australia	Japan
		TSCA	EC	DSL	NDSL		
Yes	7785-87-7 Manganese Sulfate, anhydrous	Yes	Yes	Yes	No	Yes	Yes
Yes	7440-66-6 Zinc Dust	Yes	Yes	Yes	No	Yes	No
Yes	7727-43-7 Barium Sulfate	Yes	Yes	Yes	No	Yes	Yes
Yes	63-74-1 Sulfanilamide	Yes	Yes	Yes	No	Yes	Yes
Yes	1465-25-4 N-1-(Naphthyl) ethylenediamine dihydrochloride	Yes	Yes	Yes	No	Yes	No
Yes	57-50-1 Sucrose	Yes	Yes	Yes	No	Yes	Yes

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Federal, State, & International Regulations

Ingredient	-- SARA 302 --		----- SARA 313 -----		CERCLA	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category			
7785-87-7 Manganese Sulfate, anhydrous	No	No	No	Manganese cmpnd	1	No	No
7440-66-6 Zinc Dust	No	No	Yes	No	1000	No	No
7727-43-7 Barium Sulfate	No	No	No	No	No	No	No
63-74-1 Sulfanilamide	No	No	No	No	No	No	No
1465-25-4 N-1-(Naphthyl) ethylenediamine dihydrochloride	No	No	No	No	No	No	No
57-50-1 Sucrose	No	No	No	No	No	No	No

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Ingredient	--- SARA 311/312 --- Hazard Categories				Reactivity	--- Australia ---		This MSDS Is WHMIS Compliant
	Acute	Chronic	Fire	Pressure		Hazchem Code	Poison Schedule	
7785-87-7 Manganese Sulfate, anhydrous	Yes	Yes	No	No	No	None Allocated	None Allocated	
7440-66-6 Zinc Dust	Yes	No	Yes	No	Yes	4Y	S6	
7727-43-7 Barium Sulfate	Yes	No	No	No	No	None Allocated	None Allocated	
63-74-1 Sulfanilamide	Yes	No	No	No	No	None Allocated	None Allocated	
1465-25-4 N-1-(Naphthyl) ethylenediamine dihydrochloride	Yes	No	No	No	No	None Allocated	None Allocated	
57-50-1 Sucrose	No	No	Yes	No	No	None Allocated	None Allocated	
product 5703 as a whole	Yes	Yes	No	No	No	None Allocated	None Allocated	Yes

6. Other Information

Prepared By: IP, Regulatory Affairs Department

Revised: 7/31/2006