

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)

Manufactured By: LaMotte Company

### **<u>1. Product Identification</u>**

Product Code: 5147

**Product Description:** Nitrate Reagent #2

#### 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 dihydrochl	<1 oride	N/E	N/E
Yes	57-50-1 Sugar	28	5 mg/cubic m (respirable)	10 mg/cubic m (total dust)

# **MSDS**

802 Washington Avenue

Chestertown, MD 21620

#### MATERIAL SAFETY DATA SHEET

Product Code: 5147

#### 3. Hazards Overview

Primary Route Of Entry: Ingestion Inhalation Skin

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

# HMIS HazardScale: 4 = Extreme, 3 = High, 2 = Moderate, 1= Slight, 0 = LeastHealth: 1Flammability: 0Reactivity: 0

Carcinogenicity: None

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

Manganese sulfate and sulfanilamide are possible mutagens, which may cause heritable genetic damage.

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

Eye Contact: Flush thoroughly with water.

Skin Contact: Wash with soap and water.

Ingestion: Drink water. Consult a physician.

Inhalation: Remove to fresh air.

#### **<u>5. Fire Fighting Measures</u>**

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. Large quantity: Sweep up. Place in clean, dry, closed container. Send to approved landfill or to hazardous waste disposal.

Product Code: 5147

#### 7. Handling & Storage

Store tightly closed in cool, dry place away from heat, moisture, and strong acids.

#### **<u>8. Exposure Controls/Personal Protection</u>**

#### **Ventilation**

Mechanical

#### **Protection When Handling**

Gloves Eye Protection 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	Vapor Density:	N/A
Solubility In Water:	Partial	Vapor Pressure:	N/A
Odor:	None	<b>Boiling Point:</b>	N/A
pH:	6 (0.1g/10mL water)	<b>Melting Point:</b>	Unknown

#### **10. Stability & Reactivity**

Stable:	Yes
Conditions To Avoid:	Heat, moisture
Incompatibility (Materials To Avoid):	Strong acids
Hazardous Decomposition Products:	N/A

#### **<u>11. Toxicological Information</u>**

Manganese sulfate monohydrate--Oral rat LD50: 2150 mg/kg. Sulfanilamide--Oral rat LD50: 3900mg/kg. Both chemicals have been investigated as possible tumorigens, mutagens, or reproductive effectors.

Target Organs: Blood Central Nervous System Kidney Lung Skin

#### **12. Ecological Information**

Information Not Yet Available

#### **13. Disposal Considerations**

Dispose according to federal, state and local regulations.

#### **<u>14. Transportation Information</u>**

Not Regulated For Transport

#### **15. Regulatory Information**

#### **Chemical Inventory Status**

Hazard	Ingredient	USA TSCA	Europe EC	Cana DSL	da NDSL	Australia	Japan
Yes	7785-87-7 Manganese Sulfate,	Yes anhydrou	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) ethy	Yes vlenediam	Yes ine dihydrochlor	Yes ide	No	Yes	No
Yes	57-50-1 Sucrose	Yes	Yes	Yes	No	Yes	Yes

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## **Product Description:** Nitrate Reagent #2

Federal, State, & International Regulations										
	SARA	302		SARA 313		RCRA	TSCA			
Ingredient	RQ	TPQ	Listed	Chemical Category	CERCLA	261.33	8(D)			
7785-87-7 Manganese Sulfate, an	No hydrous	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) ethyler	No nediamine di	No ihydrochloride	No	No	No	No	No			
57-50-1 Sucrose	No	No	No	No	No	No	No			

#### Federal, State, & International Regulations

Ingredient	Acute	Haza	rd Ca	1/312 ntegories Pressure	Reactivity	Austral Hazchem Code	ia Poison Schedule	This MSDS Is WHMIS Compliant
7785-87-7 Manganese Sul	Yes fate, anh	Yes ydrous	No	No	No	None Allocated	None Allocate	d
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 Allocate	d
63-74-1 Sulfanilamide	Yes	No	No	No	No	None Allocated	None Allocate	d
1465-25-4 N-1-(Naphthyl)	Yes ethylene	No ediamine dih	No ydrocl	No hloride	No	None Allocated	None Allocate	d
57-50-1 Sucrose	No	No	Yes	No	No	None Allocated	None Allocate	d
oduct 5147 a whole	Yes	Yes	Yes	No	No	None Allocated	None Allocate	d Yes

#### **16. Other Information**

Prepared By: IP, Regulatory Affairs DepartmentRevised: 2006-07-28