

MSDS

MATERIAL SAFETY DATA SHEET

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: V-6277

802 Washington Avenue

Manufactured By: LaMotte Company

Product Description: Sulfate Reagent

Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	l CAS#/Name	%	PEL	TLV
Yes	10326-27-9 Barium Chloride dihydrate	36	0.5 mg/cubic m as Ba	0.5 mg/cubic m as Ba
Yes	5949-29-1 Citric Acid, Monohydrate	60	N/E	N/E
Yes	9000-01-5 Gum Arabic	4	N/E	N/E

3. Hazards Overview

Primary Route Of Entry: Skin Ingestion Inhalation

Toxic by inhalation or ingestion. May be fatal if swallowed. Abdominal pain and vomiting.

HMIS Hazard

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

Health: 3 Flammability: 0 Reactivity: 1

Carcinogenicity: None:

Other Health Related Comments:

Poison! Danger! Toxic by inhalation or ingestion. See Section 11, Toxicity.

Product Code: V-6277 Product Description: Sulfate Reagent

4. First Aid Measures

Eye Contact: Flush with water for 15 minutes. Consult a physician.

Skin Contact: Immediately flush with water. Remove affected clothing and wash skin thoroughly with soap and water.

Ingestion: Induce vomiting immediately. Call a physician immediately.

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

Wear gloves and eye protection. Avoid breathing dust. Sweep up, containerize, & hold for hazardous waste disposal or treat as described in Section 13.

7. Handling & Storage

Store in cool, dry, ventilated area away from heat and moisture. Keep container tightly closed in secure "poison" area--out of reach of children. No eating or smoking when handling.

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8. Exposure Controls/Personal Protection

Ventilation

Normal

Protection When Handling

Eye Protection Gloves Lab coat

Work/Hygenic Practices: Avoid inhalation of dust or contact, eyes & skin. Wash thoroughly with soap & water after handling.

9. Physical & Chemical Properties

Appearance:White PowderVapor Density:N/ASolubility In Water:SolubleVapor Pressure:N/AOdor:NoneBoiling Point:N/A

pH: 3 (0.1g in 10mL water) Melting Point: Unknown

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: N/A

Incompatibility (Materials To Avoid): Strong oxidizing materials

Hazardous Decomposition Products: HCl, COx

11. Toxicological Information

Barium Chloride: Toxic Dose, Oral human LDL0: 11.4 mg/kg. Highly toxic by ingestion! Estimated lethal dose in humans is 1 gram. Investigated as a tumorigen. Acacia powder may cause allergic skin or respiratory reaction (hives, eczema; asthma, coughing)

Target Organs: Central Nervous System Heart Skin

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12. Ecological Information

Barium Chloride is expected to significantly bioaccumulate in the environment.

13. Disposal Considerations

Do NOT flush barium chloride to sewers and watercourses. Lab treatment methods to convert the chloride to the sulfate by dissolving in water and adding sulfuric acid are slow & inefficient. Direct disposal of reagent as a hazardous waste is recommend

14. Transportation Information

Proper Shipping Name:

DOT: BARIUM COMPOUNDS, N.O.S.

(BARIUM CHLORIDE)

IATA: BARIUM COMPOUNDS, N.O.S.

(BARIUM CHLORIDE)

Hazard Class/Div:

DOT: 6.1 **IATA:** 6.1

UN: 1564

Packing Group: III

15. Regulatory Information

Chemical Inventory Status

Hazard	Ingredient	USA TSCA	Europe EC	Canad DSL	da NDSL	Australia	Japan
Yes	10361-37-2 Barium Chloride anh	Yes nydrous	Yes	Yes	No	Yes	Yes
Yes	77-92-9 Citric Acid, Anhydro	Yes	Yes	Yes	No	Yes	Yes
Yes	9000-01-5 Gum Arabic (Acacia	Yes	Yes	Yes	No	Yes	No

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Federal, State, & International Regulations

	SARA	302		SARA 313		RCRA	TSCA
Ingredient	RQ	TPQ	Listed	Chemical Category	CERCLA	261.33	8(D)
10361-37-2 Barium Chloride anhy	No drous	No	No	Barium comp.	No	No	No
77-92-9 Citric Acid, Anhydrou	No s	No	No	No	No	No	No
9000-01-5 Gum Arabic (Acacia)	No	No	No	No	No	No	No

Product Code: V-6277

Ingredient	Acute	Haza	rd Ca	1/312 tegories Pressure	Reactivity	Austra Hazchem Code	lia Poison Schedule	This MSDS Is WHMIS Compliant
10361-37-2 Barium Chlor	Yes ide anhydi	No rous	No	No	No	2Z	S6	
77-92-9 Citric Acid, A	Yes inhydrous	No	No	No	No	None Allocated	None Allocate	ed
9000-01-5 Gum Arabic (Yes Acacia)	No	Yes	No	No	None Allocated	None Allocate	ed
product V-6277 as a whole	Yes	No	No	No	No	2Z	S6	Yes

16. Other Information

No eating or smoking when handling.

Prepared By: IP, Regulatory Affairs Department

Revised: 4/1/2008