



PO Box 329 • 802 Washington Avenue • Chestertown, MD 21620 • USA

Telephone Number For Information 410-778-3100

24 Hour Emergency Number (CHEM-TEL) 800-255-3924

MSDS

Material Safety Data Sheet

1. Product Identification

Product Code:

V-6282

Product Description:

Phosphate Acid Reagent

Manufactured By:

LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

2. Composition/Information on Ingredients

Hazardous	Name	CAS #	%	OSHA PEL	ACGIH TLV
Yes	Sulfuric Acid	7664-93-9	12	1 mg/cubic m	1 mg/cubic m
Yes	Ammonium Molybdate, tetrahydrate	12054-85-2	<1	5 mg/cubic m for soluble moly. compounds as Mo	0.5 mg/cubic m sol. moly cmpnds. respirable, as Mo
Yes	Antimony Potassium Tartrate, trihydrate	28300-74-5	<0.1	0.5 mg/ cubic m (as Sb)	0.5 mg/ cubic m (as Sb)
No	Water to 100%				

3. Hazards Overview

Primary Route of Entry: Ingestion Skin

Poison! Danger! Corrosive. Liquid and mist cause burns to all body tissue. Ingestion may be fatal. Inhalation can cause coughing, chest pains, damage to lungs.

HMIS Hazard: (Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least)

Health: 2 Flammability: 0 Reactivity: 1

Carcinogenicity: Strong acid mists containing sulfuric acid can cause cancer. Risk depends on duration and level of exposure.

Other Health Related Comments:

4. First Aid Measures

Eye Contact: Immediately flush with water for 15 minutes. Get prompt medical attention.

Skin Contact: Immediately flush with water for 15 minutes while removing affected clothing. Consult a physician.

Ingestion: Do not induce vomiting. Rinse out mouth. Drink plenty of water. Call a doctor immediately.

Inhalation: Remove to fresh air. If breathing is difficult give oxygen.

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Product Description: Phosphate Acid Reagent

5. Fire Fighting Measures

Flash Point: N/A **LEL:** N/A **UEL:** N/A

Fire Rating

Extinguishing Media: Not a fire hazard

Special Fire Fighting Procedures: Firefighters wear self-contained breathing apparatus

Hazardous Combustion and/or Decomposition Products: SO_x, hydrogen gas

Unusual Fire & Explosion Hazard: A violent exothermic reaction occurs with water. May react with metals to liberate flammable, explosive hydrogen gas.

6. Accidental Release Measures

Cover contaminated surface with sodium bicarbonate. Mix and carefully add water to form slurry. Scoop up and flush down drain with excess water.

7. Handling & Storage

Store in cool, dry, ventilated area, away from strong bases, combustibles, and other incompatibles.

8. Exposure Controls/Personal Protection

Ventilation

Use with adequate ventilation.

Protection When Handling

Gloves Eye Protection Lab Coat

Work/Hygienic Practices: Avoid contact with eyes, skin and clothing.

9. Physical & Chemical Properties

Appearance:	Colorless Clear Liquid	Boiling Point:	Unknown
		Melting Point:	N/A
		pH:	<1
Odor:	Slight	Vapor Density:	Unknown
Solubility in Water:	Soluble	Vapor Pressure:	Unknown

10. Stability & Reactivity

Stable: Yes
Conditions to Avoid: N/A
Materials to Avoid: Organics, combustibles, strong bases, powdered metals, cyanides, sulfides.

Hazardous Decomposition Products: SO_x, hydrogen gas

Product Code: V-6282**Product Description: Phosphate Acid Reagent**

11. Toxicological Information

Oral rat LD50: 115 mg/kg for antimony potassium tartrate. Investigated as a tumorigen and mutagen.

Oral rat LD50: 333 mg.kg for ammonium molybdate. Investigated as a mutagen. Molybdenum, soluble compounds, respirable fraction (as Mo), are confirmed animal carcinogens; relevance to humans unknown.

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

Target Organs: Sulfuric Acid: Corrosive to all body parts

12. Ecological Information

Information not Available

13. Disposal Considerations

Add slowly to a large volume of soda ash - slaked lime. Flush neutralized solution down drain with excess water. Dispose according to federal, state and local regulations.

14. Transport Information

Domestic:

Proper Shipping Name: SULFURIC ACID

International:

Proper Shipping Name: SULPHURIC ACID

Hazard Class/Div: 8

UN2796

Packing Group: II

15. Regulatory Information**Chemical Inventory Status**

Ingredient	USA	Europe	---Canada---		Australia	Japan
	TSCA	EC	DSL	NDSL		
Sulfuric Acid (7664-93-9)	YES	YES	YES	NO	YES	YES
Ammonium Molybdate, anhydrous (12027-67-7)	YES	YES	YES	NO	YES	YES
Antimony Potassium Tartrate, anhydrous (11071-15-1)	YES	YES	YES	NO	YES	YES

Water

Product Code: V-6282**Product Description: Phosphate Acid Reagent**

Federal, State, & International Regulations

Ingredient	---SARA 302---		----- SARA 313 -----			RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category	CERCLA		
Sulfuric Acid (7664-93-9)	1000	1000	YES	NO	1000	NO	NO
Ammonium Molybdate, anhydrous (12027-67-7)							
Antimony Potassium Tartrate Anhydrous (11071-15-1)	NO	NO	NO	Antimony compound	NO	NO	NO
Water							

Ingredient	----- SARA 311/312 -----			----- Australia -----		This MSDS is WHMIS Compliant
	Hazard Categories			Hazchem Code	Poison Schedule	
Sulfuric Acid (7664-93-9)	Acute: Yes Pressure: No	Chronic: Yes Reactivity: Yes (Pure/Liquid)	Fire: No	2P	None allocated	
Ammonium Molybdate, anhydrous (12027-67-7)	Acute: Yes Pressure: No	Chronic: Yes Reactivity: No (Pure/Solid)	Fire: No	None allocated	None allocated	
Antimony Potassium Tartrate, anhydrous (11071-15-1)	Acute: Yes Pressure: No	Chronic: Yes Reactivity: No (Pure/Solid)	Fire: No	2X	None allocated	
Water						
For product V-6282 liquid mixture as a whole	Acute: Yes Pressure: No	Chronic: Yes Reactivity: Yes	Fire: No			YES

16. Other Information

Store away from strong bases or finely powdered metals.

Prepared By: IP**Revised: 3/04/2005**



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24 Hour Emergency Number (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;

Outside North American continent 813-248-0585 (call collect)

MSDS

Material Safety Data Sheet

1. Product Identification

Product Code:

V-6283

Manufactured By:

LaMotte Company

Product Description:

Phosphate Reducing Reagent

802 Washington Avenue

Chestertown, MD 21620

2. Composition/Information on Ingredients

Hazardous	Name	CAS #	%	OSHA PEL	ACGIH TLV
Yes	D(-)-Isoascorbic Acid	89-65-6	10	N/E	N/E
Yes	Sucrose	57-50-1	90	5 mg/cubic m, respirable fraction	10 mg/cubic m total dust

3. Hazards Overview

Primary Route of Entry: Ingestion Inhalation Skin

Dust may irritate eyes, skin, respiratory tract.

HMIS Hazard: (Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least)

Health: 1 Flammability: 1 Reactivity: 0

Carcinogenicity: None

Other Health Related Comments: See Section 11.

4. First Aid Measures

Eye Contact: Flush with water for 15 minutes.

Skin Contact: Rinse skin. Wash with soap and water.

Ingestion: Rinse out mouth. Drink plenty of water. Consult physician if symptoms develop.

Inhalation: Remove to fresh air.

5. Fire Fighting Measures

Flash Point: N/A **LEL:** N/A **UEL:** N/A

Fire Rating

Extinguishing Media: Water spray

Special Fire Fighting Procedures: Firefighters wear self-contained breathing apparatus

Hazardous Combustion and/or Decomposition Products: CO_x

Unusual Fire & Explosion Hazard: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Emits toxic fumes under fire conditions. Contact of iso-ascorbic acid with chemically active metals (Al, Zn, Mg, Cu) can generate flammable hydrogen gas.

Product Code: V-6283

Product Description: Phosphate Reducing Reagent

6. Accidental Release Measures

Avoid raising, breathing dust. Sweep up, dissolve in water. Wash down drain with excess water.

7. Handling & Storage

Store tightly closed in cool, dry ventilated area away from incompatibles.

8. Exposure Controls/Personal Protection

Ventilation

Use with adequate ventilation.

Protection When Handling

Gloves Eye Protection Lab Coat

Work/Hygienic Practices: Avoid skin contact and inhalation of powder. Wash after handling.

9. Physical & Chemical Properties

Appearance:	White Powder	Boiling Point:	N/A
		Melting Point:	165-185 C d.
		pH:	2-3 (0.1 g/10mL water)
Odor:	None	Vapor Density:	N/A
Solubility in Water:	Soluble	Vapor Pressure:	N/A

10. Stability & Reactivity

Stable:	Yes
Conditions to Avoid:	Heat, flame, ignition sources, moisture and incompatibles.
Materials to Avoid:	Strong oxidizers, bases, sulfuric and nitric acids, chemically active metals (aluminum, copper, magnesium, zinc)

Hazardous Decomposition Products: CO_x, irritating fumes.

11. Toxicological Information

Oral rat LD50: 29700 mg/kg for sucrose. Investigated as a mutagen, reproductive effector.

D-Araboascorbic Acid investigated as a mutagen.

In normal and recommended use product #V-6284 is **non-toxic**.

Target Organs: N/A

12. Ecological Information

Information not Available

13. Disposal Considerations

Dissolve in water. Wash down drain with excess water. Dispose according to federal, state and local regulations.

14. Transport Information

Not regulated for transport

Product Code: V-6283

Product Description: Phosphate Reducing Reagent

15. Regulatory Information

Chemical Inventory Status

Ingredient	USA	Europe	---Canada---		Australia	Japan
	TSCA	EC	DSL	NDSL		
D(-)-Isoascorbic Acid (89-65-6)	YES	YES	YES	NO	YES	YES
Sucrose (57-50-1)	YES	YES	YES	NO	YES	NO

Federal, State, & International Regulations

Ingredient	---SARA 302---		----- SARA 313 -----			RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category	CERCLA		
D(-)-Isoascorbic Acid (89-65-6)	NO	NO	NO	NO	NO	NO	NO
Sucrose (57-50-1)	NO	NO	NO	NO	NO	NO	NO

Federal, State, & International Regulations

Ingredient	---SARA 302---		----- SARA 313 -----			RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category	CERCLA		
D(-)-Isoascorbic Acid (89-65-6)	NO	NO	NO	NO	NO	NO	NO
Sucrose (57-50-1)	NO	NO	NO	NO	NO	NO	NO

Ingredient	----- SARA 311/312 -----	----- Australia -----		This MSDS is WHMIS Compliant
	Hazard Categories	Hazchem Code	Poison Schedule	
D(-)-Isoascorbic Acid (89-65-6)	Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No (Pure/Solid)	None allocated	None allocated	
Sucrose (57-50-1)	Acute: No Chronic: No Fire: Yes Pressure: No Reactivity: No (Pure/Solid)	None allocated	None allocated	
For product #V-6283 mixture, taken as a whole	Acute: No Chronic: No Fire: Yes Pressure: No Reactivity: No	None allocated	None allocated	Yes

16. Other Information

Large quantities of powder dispersed in air may form combustible dust concentrations. Nuisance dust. High concentrations may irritate eyes and respiratory tract.

Prepared By: IP

Revised: 6/16/2005