



Issuing Date 12/3/2010

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Phosphorus Tablets
Product Code(s) 5422
Synonyms none
Recommended Use Test kit reagent.
Company LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620
USA

Emergency Telephone Number 24 Hour Emergency Number (CHEM-TEL):
USA, Canada, Puerto Rico 1-800-255-3924
Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Emergency Overview

The product contains no substances which in their current physical state are considered to be hazardous to health
Keep out of the reach of children

Appearance White

Physical State Tablet

Odor None

OSHA Regulatory Status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Potential Health Effects

Acute Toxicity

Chronic Effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula proprietary

Chemical Name	CAS-No	Weight %
Ammonium molybdate tetrahydrate	12054-85-2	<2
D-Isoascorbic acid	89-65-6	<2
Excipients	0-0-0000	>95

Ingredients not listed by name are proprietary to LaMotte Company, registered under the State of New Jersey Trade Secret Protection Law, assigned the NJ Trade Secret Registry # 80100291-5034p, and may be disclosed only in a medical emergency.

4. FIRST AID MEASURES

General Advice No hazards which require special first aid measures. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Keep out of reach of children.

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists or develops, contact a physician.
Skin Contact	Wash off with soap and plenty of water removing all contaminated clothes and shoes. If irritation develops or persists, consult physician.
Inhalation	Move to fresh air. Not an expected route of exposure.
Ingestion	DO NOT INDUCE VOMITING. Drink plenty of water. Consult a physician.
Protection of First-aiders	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not a fire hazard.
Flash Point	Not applicable
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO ₂ , water spray or alcohol-resistant foam.

Explosion Data

NFPA	Health Hazard 0	Flammability 0	Stability 0	Physical and Chemical Hazards -
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing.
Methods for Cleaning Up	Sweep up and shovel into suitable containers for disposal. Containerize spill material and hold for later disposal. If local regulations permit, dissolve with large volume of water, neutralize with alkaline material (sodium bicarbonate), then rinse to drain with excess water. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not ingest. Do not eat, drink or smoke when using this product.
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Protect from moisture. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium molybdate tetrahydrate 12054-85-2	TWA: 3 mg/m ³ TWA: 10 mg/m ³ TWA: 0.5 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³	IDLH: 1000 mg/m ³
D-Isoascorbic acid 89-65-6	None Known	None Known	None Known
Excipients 0-0-0000	None Known	None Known	None Known

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin and Body Protection Protective gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White	Odor	None
Physical State	Tablet	pH	2 (1 tablet in 10mL of water)
Flash Point	Not applicable	Boiling Point/Range	No information available

Vapor Pressure	No information available	Vapor Density	No information available
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10. STABILITY AND REACTIVITY

Stability Stable.

Incompatible Products Acids. Strong reducing agents.

Conditions to Avoid Excessive heat. Moisture.

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Oral VALUE (mg/kg) 333 mg/kg for Ammonium molybdate, anhydrous

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium molybdate tetrahydrate	None Known	None Known	None Known
D-Isoascorbic acid	18 g/kg (Rat)	None Known	None Known
Excipients	None Known	None Known	None Known

Chronic Toxicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonium molybdate tetrahydrate	A3	None Known	None Known	None Known
D-Isoascorbic acid	None Known	None Known	None Known	None Known
Excipients	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Ammonium molybdate tetrahydrate	None Known	None Known	None Known
D-Isoascorbic acid	None Known	None Known	None Known
Excipients	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Ammonium molybdate tetrahydrate	None Known	None Known	None Known	None Known
D-Isoascorbic acid	None Known	None Known	None Known	None Known
Excipients	None Known	None Known	None Known	None Known

Chemical Name	Log Pow

Ammonium molybdate tetrahydrate	None Known
D-Isoascorbic acid	None Known
Excipients	None Known

13. DISPOSAL CONSIDERATIONS

Chemical Name
Ammonium molybdate tetrahydrate - 12054-85-2
D-Isoascorbic acid - 89-65-6
Excipients - 0-0-0000

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Ammonium molybdate tetrahydrate - 12054-85-2	None Known	None Known	None Known	None Known
D-Isoascorbic acid - 89-65-6	None Known	None Known	None Known	None Known
Excipients - 0-0-0000	None Known	None Known	None Known	None Known

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Ammonium molybdate tetrahydrate 12054-85-2 (<2)	TSCA	DSL	EINECS/ELINCS	ENCS	X	KECL	X	X
D-Isoascorbic acid 89-65-6 (<2)	Present	X	X	9-131	X	KE-21807	X	X
Excipients 0-0-0000 (>95)	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ammonium molybdate tetrahydrate	12054-85-2	<2	1.0
D-Isoascorbic acid	89-65-6	<2	None Known
Excipients	0-0-0000	>95	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium molybdate tetrahydrate 12054-85-2 (<2)	None Known	None Known	None Known	None Known
D-Isoascorbic acid 89-65-6 (<2)	None Known	None Known	None Known	None Known
Excipients 0-0-0000 (>95)	None Known	None Known	None Known	None Known

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Ammonium molybdate tetrahydrate	12054-85-2	<2	None Known	None Known	None Known	None Known
D-Isoascorbic acid	89-65-6	<2	None Known	None Known	None Known	None Known
Excipients	0-0-0000	>95	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ammonium molybdate tetrahydrate	None Known	None Known
D-Isoascorbic acid	None Known	None Known
Excipients	None Known	None Known

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Ammonium molybdate tetrahydrate	12054-85-2	None Known
D-Isoascorbic acid	89-65-6	None Known
Excipients	0-0-0000	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ammonium molybdate tetrahydrate	None Known	None Known	None Known	None Known	None Known
D-Isoascorbic acid	None Known	None Known	None Known	None Known	None Known
Excipients	None Known	None Known	None Known	None Known	None Known



International Regulations**Mexico - Grade**

Chemical Name	Carcinogen Status	Exposure Limits
Ammonium molybdate tetrahydrate	None Known	Mexico: TWA= 10 mg/m ³ Mexico: TWA= 5 mg/m ³
D-Isoascorbic acid	None Known	None Known
Excipients	None Known	None Known

Canada**WHMIS Hazard Class**

Non-controlled

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td data-bbox="509 268 716 306">Health Hazard</td> <td data-bbox="717 268 792 306">1</td> </tr> <tr> <td data-bbox="509 308 716 346">Fire Hazard</td> <td data-bbox="717 308 792 346">0</td> </tr> <tr> <td data-bbox="509 348 716 386">Reactivity</td> <td data-bbox="717 348 792 386">0</td> </tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0		
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

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Revision Date

Revision Note Update to Format.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS