

Lagran Data 0/00/0040	
Issuing Date 3/28/2012	Revision Number 0 RODUCT AND COMPANY IDENTIFICATION
1. Pr	CODUCT AND COMPANY IDENTIFICATION
Product Name	CALCIUM HARDNESS TABLET
Product Code(s)	6846
Recommended Use	Test kit reagent. Industrial (not for food or food contact use).
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 May cause skin and eye irritation May be harmful if swallowed ses may cause gastrointestinal irritation and circulatory problems becks Physical State Tablet, ~0.1g (100mg) Odor Odorless
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 Principle Routes of Exposure	Skin and eye contact
Acute Toxicity Eyes Skin Inhalation Ingestion	May cause irritation. May cause irritation. Not an expected route of exposure. May be harmful if swallowed. May cause gastrointestinal discomfort if consumed in large amounts.
Chronic Effects None known	
Aggravated Medical Conditions	None known.
Interactions with Other Chemicals	None known.
Environmental Hazard	No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[(hexahydro-2,4,6-trioxo-5-pyrimidinyl)imino]-, monoammonium salt	3051-09-0	<0.5
Carboxymethylcellulose	-	1-5
Polyamino Carboxylic acid	-	1-10
Lithium hydroxide	1310-65-2	10
Carbonate salt	-	10-15
Potassium salt	-	35-45

Ingredients not specifically listed by name are proprietary to the LaMotte Company, registered under the State of New Jersey Trade Secret protection law, assigned the NJTSRN#80100291-5025p, and may be disclosed only in a medical emergency. Excipients not listed by name are non-hazardous and proprietary to the manufacturer.

	4. FIRST AID MEASURES			
General Advice	Do not get in eyes, on skin, or on clothing.			
Eye Contact	Immediately flush eyes with gentle stream of water for at least 15 minutes, occasionally lifting upper and lower eyelids. If irritation persists or develops, contact a physician.			
Skin Contact	Wash off with warm water and soap. If irritation develops or persists, consult physician.			
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel.			
Ingestion	Drink plenty of water. Clean mouth with water. If gastrointestinal distress occurs contact physician. Consult a physician.			
Protection of First-aiders	Use personal protective equipment. See Section 8 for more detail. 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 Prop Flash Point	erties	Not a fir Not app	e hazard. licable	
Suitable Extingu Explosion Data	ishing Media	Water s	pray, dry chemical, carb	oon dioxide ( $CO_2$ ), or foam.
NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards N/A
HMIS	Health Hazard 1	Flammability 0	Stability 0	

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** 

Refer to Section 8. Avoid contact with the skin and the eyes.

Methods for Containment Sweep up in a manner that does not dispurse dust and shovel into suitable containers for disposal.

Methods for Cleaning Up Containerize spill material and hold for later disposal. If local regulations permit, dissolve with large volume of water, neutralize with dilute acid (acetic, hydrochloric), then rinse to drain with excess water. After cleaning, flush away traces with water.

#### 7. HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.

Storage

Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from direct sunlight. Keep away from heat, moisture, and incompatibles. Keep out of the reach of children.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[(hexahydro-2,4,6-trioxo-5-pyrimi dinyl)imino]-, monoammonium salt 3051-09-0	None Known	None Known	None Known
Carboxymethylcellulose	None Known	None Known	None Known
Polyamino Carboxylic acid	None Known	None Known	None Known
Lithium hydroxide 1310-65-2	None Known	None Known	None Known
Carbonate salt	None Known	None Known	None Known
Potassium salt	None Known	None Known	None Known

#### **Engineering Measures**

None under normal use conditions. For home use.

#### **Personal Protective Equipment**

Eye/Face ProtectionSafety glasses with side-shields.Skin and Body ProtectionWear latex or nitrile gloves.Respiratory ProtectionNone required under normal usage.

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product.

	9. PHYSICAL AND CHEMICAL PROPERTIES				
Appearance Physical State Flash Point Boiling Point/Range	Light pink with white specks Tablet, ~0.1g (100mg) Not applicable No information available	Odor pH Autoignition Temperature Freezing Point	Odorless 12 (0.1g/10mL water) Not applicable No information available		
Explosion Limits	Not applicable				
Molecular Weight	No data available	Water Solubility	Soluble in water		
	10. STABILITY AND REACTIVITY				
Stability	Stable.				
Incompatible Products	Strong acids.				
<b>Conditions to Avoid</b> Exposure to air or moisture over prolonged periods. Extremes of temperature and direct sunlight.					
Hazardous Decomposition	Products None under normal use				
Hazardous Polymerization	Hazardous Polymerization Hazardous polymerization does not occur.				

# 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[(hexahydro-2,4,6-trioxo-5-pyrimid inyl)imino]-, monoammonium salt	None Known	None Known	None Known
Carboxymethylcellulose	None Known	None Known	None Known
Polyamino Carboxylic acid	2 g/kg (Rat)	None Known	None Known
Lithium hydroxide	None Known	None Known	960 mg/m <sup>3</sup> (Rat) 4 h
Carbonate salt	4090 mg/kg (Rat)	None Known	None Known
Potassium salt	2600 mg/kg (Rat)	None Known	None Known

#### **Chronic Toxicity**

#### Chronic Toxicity None known.

Chemical Name	ACGIH	IARC	NTP	OSHA
2,4,6(1H,3H,5H)-Pyrimidinet	None Known	None Known	None Known	None Known
rione,				
5-[(hexahydro-2,4,6-trioxo-5-				
pyrimidinyl)imino]-,				
monoammonium salt				
Carboxymethylcellulose	None Known	None Known	None Known	None Known
Polyamino Carboxylic acid	None Known	None Known	None Known	None Known
Lithium hydroxide	None Known	None Known	None Known	None Known
Carbonate salt	None Known	None Known	None Known	None Known
Potassium salt	None Known	None Known	None Known	None Known

#### Endocrine Disruptor Information

.

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Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[(hexahydro-2,4,6-trioxo-5-pyrimid inyl)imino]-, monoammonium salt	None Known	None Known	None Known
Carboxymethylcellulose	None Known	None Known	None Known
Polyamino Carboxylic acid	None Known	None Known	None Known
Lithium hydroxide	None Known	None Known	None Known
Carbonate salt	None Known	None Known	None Known
Potassium salt	None Known	None Known	None Known

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
2,4,6(1H,3H,5H)-Pyrimidinet rione, 5-[(hexahydro-2,4,6-trioxo-5- pyrimidinyl)imino]-, monoammonium salt	None Known	None Known	None Known	None Known
Carboxymethylcellulose	None Known	None Known	None Known	None Known
Polyamino Carboxylic acid	None Known	LC50= 159 mg/L Lepomis macrochirus 96 h LC50= 320 mg/L Poecilia reticulata 96 h	EC50 = 56 mg/L 8 h	None Known
Lithium hydroxide	None Known	None Known	None Known	None Known
Carbonate salt	EC50 = 242 mg/L 120 h	LC50= 300 mg/L Lepomis macrochirus 96 h	None Known	EC50 = 265 mg/L 48 h
Potassium salt	EC50 = 2500 mg/L 72 h	LC50= 2010 mg/L Lepomis macrochirus 96 h	None Known	EC50 = 825 mg/L 48 h

## Persistence and Degradability

No information available.

Chemical Name	Log Pow
2,4,6(1H,3H,5H)-Pyrimidinetrione,	None Known
5-[(hexahydro-2,4,6-trioxo-5-pyrimidinyl)imi	
no]-, monoammonium salt	
Carboxymethylcellulose	None Known
Polyamino Carboxylic acid	None Known
Lithium hydroxide	None Known
Carbonate salt	None Known
Potassium salt	None Known

#### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

**Contaminated Packaging** 

Dispose of in accordance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
2,4,6(1H,3H,5H)-Pyrimidinet rione, 5-[(hexahydro-2,4,6-trioxo-5- pyrimidinyl)imino]-, monoammonium salt - 3051-09-0	None Known	None Known	None Known	None Known
Carboxymethylcellulose -	None Known	None Known	None Known	None Known
Polyamino Carboxylic acid -	None Known	None Known	None Known	None Known
Lithium hydroxide - 1310-65-2	None Known	None Known	None Known	None Known
Carbonate salt -	None Known	None Known	None Known	None Known
Potassium salt -	None Known	None Known	None Known	None Known

## 14. TRANSPORT INFORMATION

DOT Proper Shipping Name Hazard Class UN-No Packing Group	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (<10% Lithium Hydroxide mixture) 8 3262 III
IATA UN-No Proper Shipping Name Hazard Class Packing Group	3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (<10% Lithium Hydroxide mixture) 8 III
IMDG/IMO Proper Shipping Name Hazard Class UN-No Packing Group	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (<10% Lithium Hydroxide mixture) 8 3262 III

## **15. REGULATORY INFORMATION**

#### International Inventories

Component	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
2,4,6(1H,3H,5H)-Pyrim idinetrione, 5-[(hexahydro-2,4,6-tri oxo-5-pyrimidinyl)imin o]-, monoammonium salt 3051-09-0 (<0.5)	Present	x	X	ENCS	x	KECL	X	x
Carboxymethylcellulos e (1-5)	TSCA	DSL	EINECS/ELIN CS	ENCS	X	KECL	Х	Х
Polyamino Carboxylic acid (1-10)	Present	X	Х	2-1265	X	KE-13651	Х	X
Lithium hydroxide 1310-65-2 (10)	Present	Х	Х	1-712	Х	KE-22570	Х	Х
Carbonate salt (10-15)	Present	Х	Х	1-164	Х	KE-31380	Х	Х
Potassium salt (35-45)	Present	Х	X	1-228	Х	KE-29086	Х	Х

### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any 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 %
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[(hexahydro-2,4,6-trioxo-5-pyrimidinyl)imino]-, monoammonium salt	3051-09-0	<0.5	None Known
Carboxymethylcellulose		1-5	None Known
Polyamino Carboxylic acid		1-10	None Known
Lithium hydroxide	1310-65-2	10	None Known
Carbonate salt		10-15	None Known
Potassium salt		35-45	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**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[(hexahydro-2,4,6-trioxo-5-pyrimid inyl)imino]-, monoammonium salt 3051-09-0 (<0.5)		None Known	None Known	None Known
Carboxymethylcellulose (1-5)	None Known	None Known	None Known	None Known

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Polyamino Carboxylic acid (1-10)	None Known	None Known	None Known	None Known
Lithium hydroxide 1310-65-2 (10)	None Known	None Known	None Known	None Known
Carbonate salt (10-15)	None Known	None Known	None Known	None Known
Potassium salt (35-45)	None Known	None Known	None Known	None Known

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
2,4,6(1H,3H,5H)-Pyrim idinetrione, 5-[(hexahydro-2,4,6-tri oxo-5-pyrimidinyl)imin o]-, monoammonium salt	3051-09-0	<0.5	None Known	None Known	None Known	None Known
Carboxymethylcellulos e		1-5	None Known	None Known	None Known	None Known
Polyamino Carboxylic acid		1-10	None Known	None Known	None Known	None Known
Lithium hydroxide	1310-65-2	10	None Known	None Known	None Known	None Known
Carbonate salt		10-15	None Known	None Known	None Known	None Known
Potassium salt		35-45	None Known	None Known	None Known	None Known

#### CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[(hexahydro-2,4,6-trioxo-5-pyrimidinyl)imino]-, monoammonium salt	None Known	None Known
Carboxymethylcellulose	None Known	None Known
Polyamino Carboxylic acid	None Known	None Known
Lithium hydroxide	None Known	None Known
Carbonate salt	None Known	None Known
Potassium salt	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
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[(hexahydro-2,4,6-trioxo-5-pyrimidinyl)imino]-, monoammonium salt	3051-09-0	None Known
Carboxymethylcellulose		None Known
Polyamino Carboxylic acid		None Known
Lithium hydroxide	1310-65-2	None Known
Carbonate salt		None Known
Potassium salt		None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island

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2,4,6(1H,3H,5H)-Pyrimidinet	None Known				
rione,					
5-[(hexahydro-2,4,6-trioxo-5-					
pyrimidinyl)imino]-,					
monoammonium salt					
Carboxymethylcellulose	None Known				
Polyamino Carboxylic acid	None Known				
Lithium hydroxide	None Known				
Carbonate salt	None Known				
Potassium salt	None Known				

## International Regulations

#### Mexico - Grade

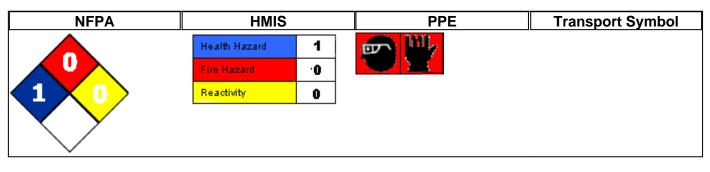
Chemical Name	Carcinogen Status	Exposure Limits
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[(hexahydro-2,4,6-trioxo-5-pyrimidinyl)imino]-, monoammonium salt	None Known	None Known
Carboxymethylcellulose	None Known	None Known
Polyamino Carboxylic acid	None Known	None Known
Lithium hydroxide	None Known	None Known
Carbonate salt	None Known	None Known
Potassium salt	None Known	None Known

#### Canada

Component	WHMIS Hazard Class
2,4,6(1H,3H,5H)-Pyrimidinetrione,	Not determined
5-[(hexahydro-2,4,6-trioxo-5-pyrimidinyl)imino]-, monoammonium salt 3051-09-0 ( <0.5 )	
Carboxymethylcellulose (1-5)	Not determined
Polyamino Carboxylic acid (1-10)	Uncontrolled product according to WHMIS classification criteria
Lithium hydroxide 1310-65-2(10)	1 % E
Carbonate salt (10-15)	1 % D2B E
Potassium salt (35-45)	Uncontrolled product according to WHMIS classification criteria



## 16. OTHER INFORMATION



**Prepared By** 

Regulatory Affairs Department

Issuing Date Revision Date Revision Note Initial Release Disclaimer

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.

3/28/2012

02-Apr-2012

End of MSDS