

# **Safety Data Sheet**

**Revision Number** 0

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

**Product name Calcium Hardness Tablet** 

Other means of identification

Product Code(s) 6846A UN-No 3262

Recommended use of the chemical and restrictions on use

**Recommended Use** Use as a laboratory reagent. Industrial (not for food or food contact use).

Details of the supplier of the safety data sheet

**Manufacturer Address** LaMotte Company, Inc. 802 Washington Avenue P.O. Box 329 Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

**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

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2

## **EMERGENCY OVERVIEW**

# WARNING

### Hazard statements

Harmful if swallowed. Causes serious eye irritation.



Appearance light pink with white specks Physical state Tablet ~0.1g (100mg) **Odor** Odorless

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell, Rinse mouth

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

#### Other Hazards

Harmful to aquatic life with long lasting effects

#### **Unknown Acute Toxicity**

4.5% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Polyamino Carboxylic acid	-	1-10
Lithium hydroxide	1310-65-2	10
Carbonate salt	-	10-15
Excipient	-	20-30
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#80100291-5002p, 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

#### **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** Remove 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. Rinse mouth.

**Self-protection of the first aider**Use personal protective equipment. See section 8 for more information. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give 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

### Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal precautions** See section 8. Avoid contact with the skin and the eyes.

Revision Date Apr-29-2015

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Environmental precautions No special environmental precautions required. See Section 12 for additional Ecological

Information.

Methods and material for containment and cleaning up

**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

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using

this product.

Conditions for safe storage, including any incompatibilities

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.

Incompatible Products Strong acids.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Polyamino Carboxylic acid	-	-	Not Established
Lithium hydroxide 1310-65-2	-	-	Not Established
Carbonate salt	-	-	Not Established
Excipient	-	-	Not Established
Potassium salt	-	-	Not Established

Appropriate engineering controls

**Engineering Measures** None under normal use conditions. For home use.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear latex or nitrile gloves.

**Respiratory protection** None required under normal usage.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes, skin and clothing. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product. Do not eat, drink or smoke

when using this product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Tablet ~0.1g (100mg)

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Appearance light pink with white specks Odor Odorless

Property Values Remarks • Method

No information available

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Melting point / freezing pointNo information availableBoiling point / boiling rangeNo information availableFlash pointNo information available

**Evaporation rate** 

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity
Water solubility

No information available
No information available
No information available
No information available
Soluble in water

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

**Other Information** 

Softening point
Molecular weight
VOC Content (%)
Density
No information available

# 10. STABILITY AND REACTIVITY

Stability Stable.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid** Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight.

Incompatible materials Strong acids.

Hazardous decomposition products None under normal use.

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Inhalation** Not an expected route of exposure.

**Eye contact** May cause irritation. **Skin contact** May cause irritation.

**Ingestion** May be harmful if swallowed.

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Polyamino Carboxylic acid	= 2 g/kg ( Rat )	Not Established	Not Established
Lithium hydroxide 1310-65-2	= 120 mg/kg (Rat) = 210 mg/kg ( Rat)	Not Established	= 960 mg/m³ (Rat) 4 h
Carbonate salt	= 4090 mg/kg ( Rat )	Not Established	= 2300 mg/m³ ( Rat ) 2 h
Excipient	> 10 g/kg (Rat)	Not Established	Not Established

Potassium salt	= 2600 mg/kg (Rat)	Not Established	Not Established

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Polyamino Carboxylic acid	-	Not Established	Not Established	-
Lithium hydroxide 1310-65-2	-	Not Established	Not Established	-
Carbonate salt	-	Not Established	Not Established	-
Excipient	-	Not Established	Not Established	-
Potassium salt	-	Not Established	Not Established	-

Chronic toxicity None known.

ATEmix (oral) 990 mg/kg

Oral LD50

Dermal LD50 No information available

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Unknown Aquatic Toxicity 43.4 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Polyamino Carboxylic acid	Not Established	320: 96 h Poecilia reticulata mg/L LC50 semi-static	Not Established
Lithium hydroxide 1310-65-2	Not Established	Not Established	Not Established
Carbonate salt	242: 120 h Nitzschia mg/L EC50	310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static	265: 48 h Daphnia magna mg/L EC50
Excipient	Not Established	Not Established	Not Established
Potassium salt	2500: 72 h Desmodesmus subspicatus mg/L EC50	750 - 1020: 96 h Pimephales promelas mg/L LC50 static 1060: 96 h Lepomis macrochirus mg/L LC50 static	825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static

# Persistence and degradability

No information available.

### **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Polyamino Carboxylic acid	Not Established
Lithium hydroxide 1310-65-2	Not Established
Carbonate salt	Not Established
Excipient	Not Established
Potassium salt	Not Established

# 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** Dispose of waste product or used containers according to local regulations.

# Contaminated packaging

Dispose of waste product or used containers according to local regulations.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Polyamino Carboxylic acid	Not Established	-	Not Established	Not Established
Lithium hydroxide 1310-65-2	Not Established	-	Not Established	Not Established
Carbonate salt	Not Established	-	Not Established	Not Established
Excipient	Not Established	-	Not Established	Not Established
Potassium salt	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Polyamino Carboxylic acid	Not Established	Not Established	Not Established	Not Established
Lithium hydroxide 1310-65-2	Not Established	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established	Not Established
Excipient	Not Established	Not Established	Not Established	Not Established
Potassium salt	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Polyamino Carboxylic acid	-
Lithium hydroxide 1310-65-2	-
Carbonate salt	-
Excipient	-
Potassium salt	-

# 14. TRANSPORT INFORMATION

DOT

Proper shipping name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (<10% Lithium Hydroxide mixture)

UN-No 3262 Hazard Class 8 Packing group III

<u>IATA</u>

Proper shipping name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (<10% Lithium Hydroxide mixture)

UN-No 3262 Hazard Class 8 Packing group III

IMDG/IMO

Proper shipping name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (<10% Lithium Hydroxide mixture)

UN-No 3262 Hazard Class 8 Packing group III

# 15. REGULATORY INFORMATION

**International Inventories** 

Complies **TSCA** Does not comply **DSL/NDSL EINECS/ELINCS** Does not comply **ENCS** Does not comply Complies **IECSC KECL** Does not comply **PICCS** Complies Complies **AICS** 

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US 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	SARA 313 - Threshold Values %
Polyamino Carboxylic acid	Not Established
Lithium hydroxide 1310-65-2	Not Established
Carbonate salt	Not Established
Excipient	Not Established
Potassium salt	Not Established

### 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

# **CWA (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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Polyamino Carboxylic acid	Not Established	Not Established	Not Established	Not Established
Lithium hydroxide 1310-65-2	Not Established	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established	Not Established
Excipient	Not Established	Not Established	Not Established	Not Established
Potassium salt	Not Established	Not Established	Not Established	Not Established

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Polyamino Carboxylic acid	-	Not Established	-
Lithium hydroxide 1310-65-2	-	Not Established	-
Carbonate salt	-	Not Established	-
Excipient	-	Not Established	-
Potassium salt	-	Not Established	-

# **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals

### U.S. State Right-to-Know Regulations

Polyamino Carboxylic acid  Lithium hydroxide 1310-65-2  Carbonate salt  Not Established  Not Established	Not Established  Not Established	Not Established  Not Established
1310-65-2		Not Established
Carbonate salt Not Established		
The Education	Not Established	Not Established
Excipient Not Established	Not Established	Not Established
Potassium salt Not Established	Not Established	Not Established





Prepared by Regulatory Affairs Department

**Issuing Date** Apr-14-2015 **Revision Date** Apr-29-2015

Reason for revision MSDS was reviewed per Canada request - Canada requires MSDS to be dated within 3 years of the request

#### **Disclaimer**

The information provided on this SDS 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.