



Issuing Date 5/30/2012

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CALCIUM HARDNESS INDICATOR TABLETS

Product Code(s) T-5250

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

Harmful if swallowed

Large oral doses may cause gastrointestinal irritation and circulatory problems

May cause skin, eye, and respiratory tract irritation

Appearance Purple

Physical State Powder

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

May cause irritation.

Skin

May cause irritation.

Inhalation

Not an expected route of exposure. May cause irritation of respiratory tract.

Ingestion

May be harmful if swallowed. Ingestion of large quantities may cause gastrointestinal irritation and circulatory problems.

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 %
Excipient	-	<1
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	2538-85-4	1-5
Resin	-	1-5
Excipient	-	20-30
Potassium chloride	7447-40-7	70-80

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.
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 Properties	Not a fire hazard.			
Flash Point	Not applicable			
Suitable Extinguishing Media	Water spray, dry chemical, carbon dioxide (CO ₂), or foam.			
Explosion Data				
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 disperse dust and shovel into suitable containers for disposal. Dispose according to federal, state, and local regulations.
Methods for Cleaning Up	Following product recovery, flush area 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. Protect from moisture. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Excipient	None Known	None Known	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-, monosodium salt 2538-85-4	None Known	None Known	None Known
Resin	None Known	None Known	None Known
Excipient	None Known	None Known	None Known
Potassium chloride 7447-40-7	None Known	None Known	None Known

Engineering Measures None under normal use conditions.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.
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 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	Purple	Odor	Odorless
Physical State	Powder	pH	7 (1 tablet in 10mL of water)
Flash Point	Not applicable	Autoignition Temperature	Not applicable
Boiling Point/Range	No information available	Freezing Point	No information available
Explosion Limits	Not applicable		
Water Solubility	Soluble in water		

10. STABILITY AND REACTIVITY

Stability Stable.

Incompatible Products Strong oxidizing agents.

Conditions to Avoid Exposure to air or moisture over prolonged periods. Temperature extremes.

Hazardous Decomposition Products Oxides of Chlorine. Potassium Oxides.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Excipient	None Known	None Known	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	None Known	None Known	None Known
Resin	None Known	None Known	None Known
Excipient	10 g/kg (Rat)	None Known	None Known
Potassium chloride	2600 mg/kg (Rat)	None Known	None Known

Chronic Toxicity

Chronic Toxicity None known.

Chemical Name	ACGIH	IARC	NTP	OSHA
Excipient	None Known	None Known	None Known	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	None Known	None Known	None Known	None Known
Resin	None Known	None Known	None Known	None Known
Excipient	None Known	None Known	None Known	None Known
Potassium chloride	None Known	None Known	None Known	None Known

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Excipient	None Known	None Known	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	None Known	None Known	None Known
Resin	None Known	None Known	None Known
Excipient	None Known	None Known	None Known
Potassium chloride	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Potassium chloride - harmful to aquatic life. Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Excipient	None Known	None Known	None Known	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	None Known	None Known	None Known	None Known
Resin	None Known	None Known	None Known	None Known
Excipient	None Known	None Known	None Known	None Known
Potassium chloride	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

Based on components, product is expected to be readily biodegradable.

Chemical Name	Log Pow
Excipient	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	None Known
Resin	None Known
Excipient	None Known
Potassium chloride	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations. Dispose according to federal, state, and local regulations. If permitted, dissolve in large volume of water and rinse to drain with excess water.

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
Excipient -	None Known	None Known	None Known	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt - 2538-85-4	None Known	None Known	None Known	None Known
Resin -	None Known	None Known	None Known	None Known
Excipient -	None Known	None Known	None Known	None Known
Potassium chloride - 7447-40-7	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
Excipient (<1)	TSCA	DSL	X	ENCS	IECSC	KECL	PICCS	AICS
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt 2538-85-4 (1-5)	Present	X	X	5-2116	X	KE-07740	X	X
Resin (1-5)	XU	X	EINECS/ELINCS	6-902	X	KE-25266	X	X
Excipient (20-30)	Present	X	X	ENCS	X	KE-17416	X	X
Potassium chloride 7447-40-7 (70-80)	Present	X	X	1-228	X	KE-29086	X	X

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 %
Excipient		<1	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	2538-85-4	1-5	None Known
Resin		1-5	None Known
Excipient		20-30	None Known
Potassium chloride	7447-40-7	70-80	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
Excipient (<1)	None Known	None Known	None Known	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt 2538-85-4 (1-5)	None Known	None Known	None Known	None Known
Resin (1-5)	None Known	None Known	None Known	None Known
Excipient (20-30)	None Known	None Known	None Known	None Known
Potassium chloride 7447-40-7 (70-80)	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
Excipient		<1	None Known	None Known	None Known	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	2538-85-4	1-5	None Known	None Known	None Known	None Known
Resin		1-5	None Known	None Known	None Known	None Known
Excipient		20-30	None Known	None Known	None Known	None Known
Potassium chloride	7447-40-7	70-80	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Excipient	None Known	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	None Known	None Known
Resin	None Known	None Known
Excipient	None Known	None Known
Potassium chloride	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
Excipient		None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	2538-85-4	None Known
Resin		None Known
Excipient		None Known
Potassium chloride	7447-40-7	None Known

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Excipient	None Known	None Known	None Known	None Known	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	None Known	None Known	None Known	None Known	None Known
Resin	None Known	None Known	None Known	None Known	None Known
Excipient	None Known	None Known	None Known	None Known	None Known
Potassium chloride	None Known	None Known	None Known	None Known	None Known



International Regulations**Mexico - Grade**

Chemical Name	Carcinogen Status	Exposure Limits
Excipient	None Known	None Known
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt	None Known	None Known
Resin	None Known	None Known
Excipient	None Known	None Known
Potassium chloride	None Known	None Known

Canada

Component	WHMIS Hazard Class
Excipient (<1)	Not determined
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt 2538-85-4 (1-5)	Uncontrolled product according to WHMIS classification criteria
Resin (1-5)	Not determined
Excipient (20-30)	Uncontrolled product according to WHMIS classification criteria
Potassium chloride 7447-40-7 (70-80)	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table><tr><td>Health Hazard</td><td>1</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	1	Fire Hazard	0	Reactivity	0		
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

Prepared By

Regulatory Affairs Department

Issuing Date

5/30/2012

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31-May-2012

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