



Issuing Date 9/13/2012

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** HARDNESS REAGENT #6 TABLETS

**Product Code(s)** 4484

**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

### WARNING!

#### Emergency Overview

Irritating to eyes

May cause skin irritation

Large oral doses may cause gastrointestinal irritation and circulatory problems

**Appearance** Purple

**Physical State** Tablet

**Odor** Unpleasant, Phenolic

**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**

Irritating to eyes.

**Skin**

May cause irritation.

**Inhalation**

Not an expected route of exposure.

**Ingestion**

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 %
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	3147-14-6	<1
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	65405-55-2	<1

## 4. FIRST AID MEASURES

<b>General Advice</b>	Show this safety data sheet to the doctor in attendance. Do not get in eyes, on skin, or on clothing.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Wash off with warm water and soap. If irritation develops or persists, consult physician.
<b>Inhalation</b>	Not expected to require first aid measures. Move to fresh air.
<b>Ingestion</b>	Drink plenty of water. Clean mouth with water. If gastrointestinal distress occurs contact physician. Consult a physician.
<b>Protection of First-aiders</b>	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

<b>Flammable Properties</b>	Not a fire hazard.			
<b>Flash Point</b>	Not applicable			
<b>Suitable Extinguishing Media</b>	Water spray, dry chemical, carbon dioxide (CO <sub>2</sub> ), or foam.			
<b>Explosion Data</b>				
<b>NFPA</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Stability</b> 0	<b>Physical and Chemical Hazards</b> N/A
<b>HMIS</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Stability</b> 0	

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Refer to Section 8. Avoid contact with the skin and the eyes. Avoid dust formation.
<b>Methods for Containment</b>	Sweep up in a manner that does not disperse dust and shovel into suitable containers for disposal. Dispose according to local regulations, if permitted dissolve in water and rinse to drain.
<b>Methods for Cleaning Up</b>	After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

<b>Handling</b>	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.
<b>Storage</b>	Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]- 3147-14-6	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene 65405-55-2	None Known	None Known	None Known

**Engineering Measures**

Eyewash stations.

**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

<b>Appearance</b>	Purple	<b>Odor</b>	Unpleasant, Phenolic
<b>Physical State</b>	Tablet	<b>pH</b>	6 (1 tablet in 10mL of water)
<b>Flash Point</b>	Not applicable	<b>Autoignition Temperature</b>	Not applicable
<b>Boiling Point/Range</b>	No information available	<b>Freezing Point</b>	No information available

**Water Solubility**

Soluble in water

## 10. STABILITY AND REACTIVITY

**Stability**

Stable under normal conditions of use and storage.

**Incompatible Products**

Strong oxidizing agents.

**Conditions to Avoid**

Exposure to air or moisture over prolonged periods. Excessive heat.

**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
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known	None Known

**Chronic Toxicity**

**Chronic Toxicity** None known.

Chemical Name	ACGIH	IARC	NTP	OSHA
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	None Known	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known	None Known

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	None Known	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known	None Known	None Known

**Persistence and Degradability** No information available.

Chemical Name	Log Pow
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** 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
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]- - 3147-14-6	None Known	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene - 65405-55-2	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
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]- 3147-14-6 ( <1 )	Present	X	X	ENCS	X	KECL	X	X
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene 65405-55-2 ( <1 )	XU	X	EINECS/ELINCS	6-902	X	KE-25266	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 %
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	3147-14-6	<1	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	65405-55-2	<1	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
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]- 3147-14-6 ( <1 )	None Known	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene 65405-55-2 ( <1 )	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
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	3147-14-6	<1	None Known	None Known	None Known	None Known

2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	65405-55-2	<1	None Known	None Known	None Known	None Known
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**CERCLA**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	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
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	3147-14-6	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	65405-55-2	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	None Known	None Known	None Known	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known	None Known	None Known	None Known

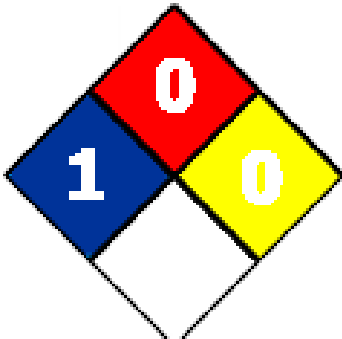

**International Regulations****Mexico - Grade**

Chemical Name	Carcinogen Status	Exposure Limits
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-	None Known	None Known
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene	None Known	None Known

**Canada**

Component	WHMIS Hazard Class
1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]- 3147-14-6 ( <1 )	Not determined
2-Propenoic acid, 2-methyl-, potassium salt, polymer with diethenylbenzene 65405-55-2 ( <1 )	Not determined

**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

9/13/2012

Revision Date

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Revision Note

Initial Release.

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**