

Issuing Date 4/2/2012

Revision Number 0

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** Calcium Hardness Indicator  
**Product Code(s)** 7041  
**Synonyms** none  
**Recommended Use** Test kit reagent. Laboratory chemicals. 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 be harmful if swallowed  
 May cause skin and eye irritation  
 May stain skin

**Appearance** Clear, Colorless

**Physical State** Liquid

**Odor** None

**Potential Health Effects**
**Principle Routes of Exposure** Skin contact, Eye contact.

**Acute Toxicity**
**Eyes**

May cause irritation.

**Skin**

May cause irritation.

**Inhalation**

Not an expected route of exposure.

**Ingestion**

May be harmful if swallowed. May cause gastrointestinal discomfort if consumed in large amounts.

**Chronic Effects**
**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Indicator	-	<0.1
Polyvinyl pyrrolidone	9003-39-8	1-5
Water	7732-18-5	to 100%

**4. FIRST AID MEASURES**
**General Advice** Do not get in eyes, on skin, or on clothing.

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists or develops, contact a physician.
<b>Skin Contact</b>	Wash skin with soap and water. 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 1 or 2 glasses of water. If gastrointestinal distress occurs contact physician.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment. 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> 0	<b>Flammability</b> 0	<b>Stability</b> 0	<b>Physical and Chemical Hazards</b> -
<b>HMIS</b>	<b>Health Hazard</b> 0	<b>Flammability</b> 0	<b>Stability</b> 0	

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Refer to Section 8.
<b>Methods for Containment</b>	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dispose according to federal, state, and local regulations.
<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 tightly closed in a dry and cool place. Keep in properly labeled containers. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Indicator	None Known	None Known	None Known
Polyvinyl pyrrolidone 9003-39-8	None Known	None Known	None Known
Water 7732-18-5	None Known	None Known	None Known

**Engineering Measures**                      Showers. Eyewash stations.

**Personal Protective Equipment**

<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin and Body Protection</b>	Protective gloves.
<b>Respiratory Protection</b>	None required under normal usage. Maintain adequate ventilation.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear Colorless	<b>Odor</b>	None
<b>Physical State</b>	Liquid	<b>pH</b>	6
<b>Flash Point</b>	Not applicable	<b>Boiling Point/Range</b>	ca. 101°C/214°F

<b>Vapor Pressure</b>	No information available	<b>Vapor Density</b>	No information available
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## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions of use and storage.

**Incompatible Products** Strong oxidizing agents.

**Conditions to Avoid** Temperature extremes.

**Hazardous Decomposition Products** Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides (COx). Nitrogen oxides (NOx).

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

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Indicator	None Known	None Known	None Known
Polyvinyl pyrrolidone	100 g/kg ( Rat )	None Known	None Known
Water	90 mL/kg ( Rat )	None Known	None Known

### Chronic Toxicity

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Indicator	None Known	None Known	None Known	None Known
Polyvinyl pyrrolidone	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information

Indicator	None Known	None Known	None Known
Polyvinyl pyrrolidone	None Known	None Known	None Known
Water	None Known	None Known	None Known

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Indicator	None Known	None Known	None Known	None Known
Polyvinyl pyrrolidone	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

**Persistence and Degradability** No information available.

**Bioaccumulation/Accumulation** No information available.

Chemical Name	Log Pow
Indicator	None Known
Polyvinyl pyrrolidone	None Known
Water	None Known

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of in accordance with local regulations. This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Indicator -	None Known	None Known	None Known	None Known
Polyvinyl pyrrolidone - 9003-39-8	None Known	None Known	None Known	None Known
Water - 7732-18-5	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
Indicator (<0.1)	Present	X	X	ENCS	X	KECL	X	X
Polyvinyl pyrrolidone 9003-39-8 (1-5)	XU	X	EINECS/ELINCS	6-1007; 6-1048	X	KE-13324	X	X
Water 7732-18-5 (to 100%)	Present	X	X	ENCS	X	KE-35400	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 %
Indicator		<0.1	None Known
Polyvinyl pyrrolidone	9003-39-8	1-5	None Known
Water	7732-18-5	to 100%	None Known

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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
Indicator (<0.1)	None Known	None Known	None Known	None Known
Polyvinyl pyrrolidone 9003-39-8 (1-5)	None Known	None Known	None Known	None Known
Water 7732-18-5 (to 100%)	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
Indicator		<0.1	None Known	None Known	None Known	None Known
Polyvinyl pyrrolidone	9003-39-8	1-5	None Known	None Known	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known

**CERCLA**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Indicator	None Known	None Known

Polyvinyl pyrrolidone	None Known	None Known
Water	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
Indicator		None Known
Polyvinyl pyrrolidone	9003-39-8	None Known
Water	7732-18-5	None Known

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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Indicator	None Known	None Known	None Known	None Known	None Known
Polyvinyl pyrrolidone	None Known	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known	None Known



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

Chemical Name	Carcinogen Status	Exposure Limits
Indicator	None Known	None Known
Polyvinyl pyrrolidone	None Known	None Known
Water	None Known	None Known

**Canada**

Component	WHMIS Hazard Class
Indicator ( <0.1 )	Not determined
Polyvinyl pyrrolidone 9003-39-8 ( 1-5 )	Uncontrolled product according to WHMIS classification criteria
Water 7732-18-5 ( to 100% )	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION
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NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td>0</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health Hazard	0	Fire Hazard	0	Reactivity	0		
Health Hazard	0								
Fire Hazard	0								
Reactivity	0								

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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**