

Issuing Date 3/30/2014

Revision Number 0

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** Total Alkalinity Reagent  
**Product Code(s)** 7038  
**Recommended Use** Test kit reagent. Industrial (not for food or food contact use). Laboratory chemicals.  
**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**

May be harmful if swallowed  
 May be irritating to eyes, respiratory system, and skin

**Appearance** Dark amber

**Physical State** Liquid

**Odor** Odorless

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

**Acute Toxicity**

**Eyes** May cause irritation.  
**Skin** May cause irritation.  
**Inhalation** Not an expected route of exposure. May cause irritation.  
**Ingestion** May be harmful if swallowed. May cause irritation.

**Chronic Effects**

No information available

**Aggravated Medical Conditions** No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Indicator	-	<0.1
Polyvinyl polymer	-	<0.5
Hydrochloric acid	7647-01-0	<0.2
Phenol	108-95-2	0.2
Buffering agent	-	1-5
Water	7732-18-5	to 100%

**4. FIRST AID MEASURES**

**General Advice** Do not get in eyes, on skin, or on clothing.

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin Contact** Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Wash skin with soap and water. Consult a physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Call a physician immediately.

**Ingestion** DO NOT INDUCE VOMITING. Drink plenty of water. Consult a physician. Never give anything by mouth to an unconscious person.

**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<sub>2</sub>), or foam.

**Explosion Data**

<b>NFPA</b>	<b>Health Hazard 1</b>	<b>Flammability 0</b>	<b>Stability 0</b>	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	<b>Health Hazard 1</b>	<b>Flammability 0</b>	<b>Stability 0</b>	

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Refer to Section 8. Use personal protective equipment. Avoid contact with skin, eyes and inhalation of vapors.

**Methods for Containment** Absorb/Cover spill with sodium bicarbonate or sodium carbonate to neutralize, then place in a chemical waste container for later disposal. Dispose according to local regulations, if permitted dissolve in water and rinse to drain.

**Methods for Cleaning Up** 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 oxidizing agents. Keep away from direct sunlight. Keep out of the reach of children.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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Indicator	None Known	None Known	None Known
Polyvinyl polymer	None Known	None Known	None Known
Hydrochloric acid 7647-01-0	None Known	Ceiling 5 ppm (7mg/m <sup>3</sup> )	IDLH: 50 ppm Ceiling: 7 mg/m <sup>3</sup> Ceiling: 5 ppm
Phenol 108-95-2	TWA: 5 ppm	TWA: 19 mg/m <sup>3</sup> TWA: 5 ppm	IDLH: 250 ppm Ceiling: 15.6 ppm Ceiling: 60 mg/m <sup>3</sup> TWA: 19 mg/m <sup>3</sup> TWA: 5 ppm
Buffering agent	None Known	None Known	None Known
Water 7732-18-5	None Known	None Known	None Known

**Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems.

**Personal Protective Equipment**

**Eye/Face Protection**

Safety glasses with side-shields.

**Skin and Body Protection**

Wear protective gloves/clothing.

**Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hygiene Measures**

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

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Dark amber	<b>Odor</b>	Odorless
<b>Physical State</b>	Liquid	<b>pH</b>	2.0 - 3.5
<b>Flash Point</b>	Not applicable	<b>Boiling Point/Range</b>	ca. 100°C/212°F

<b>Vapor Pressure</b>	<17 mmHg @ 20°C	<b>Vapor Density</b>	<1(Air = 1)
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**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions of use and storage.
<b>Incompatible Products</b>	Strong oxidizing agents. Nitric acid.
<b>Conditions to Avoid</b>	Excessive heat. Direct sunlight. Incompatible products.
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products formed under fire conditions - . Carbon oxides (COx).
<b>Hazardous Polymerization</b>	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 polymer	None Known	None Known	None Known
Hydrochloric acid	700 mg/kg ( Rat )	5010 mg/kg ( Rabbit )	3124 ppm ( Rat ) 1 h
Phenol	317 mg/kg ( Rat )	525 mg/kg ( Rat ) 630 mg/kg ( Rabbit )	None Known
Buffering agent	3200 mg/kg ( Rat )	None Known	None Known
Water	90 mL/kg ( Rat )	None Known	None Known

**Chronic Toxicity****Chronic Toxicity**

No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Indicator	None Known	None Known	None Known	None Known
Polyvinyl polymer	None Known	None Known	None Known	None Known
Hydrochloric acid	None Known	None Known	None Known	None Known
Phenol	None Known	None Known	None Known	None Known
Buffering agent	None Known	None Known	None Known	None Known
Water	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
Indicator	None Known	None Known	None Known
Polyvinyl polymer	None Known	None Known	None Known
Hydrochloric acid	None Known	None Known	None Known
Phenol	None Known	None Known	None Known
Buffering agent	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 polymer	None Known	None Known	None Known	None Known
Hydrochloric acid	None Known	LC50= 282 mg/L <i>Gambusia affinis</i> 96 h	None Known	None Known
Phenol	EC50 = 150 mg/L 96 h	LC50 5 - 12 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50= 23.88 mg/L <i>Lepomis macrochirus</i> 96 h LC50= 24 mg/L <i>Pimephales promelas</i> 96 h LC50= 27.8 mg/L <i>Brachydanio rerio</i> 96 h LC50= 40 mg/L <i>Poecilia reticulata</i> 96 h LC50= 8.9 mg/L <i>Oncorhynchus mykiss</i> 96 h	EC50 21 - 36 mg/L 30 min EC50 = 23.28 mg/L 5 min EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min	LC50 = 13 mg/L 48 h EC50 = 23.0 mg/L 48 h
Buffering agent	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
Indicator	None Known
Polyvinyl polymer	None Known
Hydrochloric acid	None Known
Phenol	= 1.47
Buffering agent	None Known
Water	None Known

## 13. DISPOSAL CONSIDERATIONS

## Waste Disposal Method

Dispose according to federal, state, and local regulations. If permitted, neutralize reagent with sodium bicarbonate/sodium carbonate, add slurry to large volume of water to dilute, rinse to drain with excess water.

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 polymer -	None Known	None Known	None Known	None Known
Hydrochloric acid - 7647-01-0	None Known	None Known	None Known	None Known
Phenol - 108-95-2	None Known	None Known	None Known	None Known
Buffering agent -	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	IECSC	KECL	X	AICS
Polyvinyl polymer (<0.5)	XU	DSL	EINECS/ELINCS	ENCS	X	KECL	PICCS	AICS
Hydrochloric acid 7647-01-0 (<0.2)	T	X	X	X	X	KE-20189 X	X	X
Phenol 108-95-2 (0.2)	Present	X	X	3-481	X	KE-28209	X	X
Buffering agent (1-5)	Present	X	X	2-1272; 3-1272; 3-1342	X	KE-02310	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 contains a chemical or 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 polymer		<0.5	None Known
Hydrochloric acid	7647-01-0	<0.2	1.0
Phenol	108-95-2	0.2	1.0
Buffering agent		1-5	None Known
Water	7732-18-5	to 100%	None Known

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<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 contains the following substances which are regulated 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 polymer (<0.5)	None Known	None Known	None Known	None Known
Hydrochloric acid 7647-01-0 (<0.2)	5000 lb	None Known	None Known	X
Phenol 108-95-2 (0.2)	1000 lb	X	X	X
Buffering agent (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 contains the following HAPs: .

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 polymer		<0.5	None Known	None Known	None Known	None Known
Hydrochloric acid	7647-01-0	<0.2	Present	None Known	None Known	None Known
Phenol	108-95-2	0.2	Present	Group III	None Known	None Known
Buffering agent		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 polymer	None Known	None Known
Hydrochloric acid	5000 lb	5000 lb
Phenol	1000 lb	1000 lb
Buffering agent	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 polymer		None Known
Hydrochloric acid	7647-01-0	None Known
Phenol	108-95-2	None Known
Buffering agent		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 polymer	None Known	None Known	None Known	None Known	None Known
Hydrochloric acid	X	X	X	X	X
Phenol	X	X	X	X	X
Buffering agent	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 polymer	None Known	None Known
Hydrochloric acid	None Known	None Known

Phenol	None Known	Mexico: TWA= 19 mg/m <sup>3</sup> Mexico: TWA= 5 ppm
Buffering agent	None Known	None Known
Water	None Known	None Known

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

Component	WHMIS Hazard Class
Indicator (<0.1)	Uncontrolled product according to WHMIS classification criteria
Polyvinyl polymer (<0.5)	Not determined
Hydrochloric acid 7647-01-0 (<0.2)	1 % A D1A E D1B E D1A E
Phenol 108-95-2 (0.2)	1 % D1A E
Buffering agent (1-5)	Uncontrolled product according to WHMIS classification criteria
Water 7732-18-5 (to 100%)	Uncontrolled product according to WHMIS classification criteria

Chemical Name	NPRI
Phenol	X

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <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								

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**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**