

Issuing Date May-27-2014

Revision Date -

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name CALCIUM HARDNESS TITRANT (0.048M EDTA)

Product Code(s) P-7031

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 cause skin and eye irritation
Large oral doses may cause gastrointestinal irritation

Appearance Clear, colorless**Physical state** liquid**Odor** Odorless**Potential health effects****Principle Routes of Exposure**

Eye Contact, Skin Contact.

Acute toxicity**Eyes**

May cause irritation.

Skin

May cause irritation.

Inhalation

Not an expected route of exposure.

Ingestion

May cause gastrointestinal discomfort if consumed in large amounts.

Chronic effects

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Sodium hydroxide	1310-73-2	0.2
Disodium EDTA	139-33-3	2
Water	7732-18-5	to 100%

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 immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. If irritation develops or persists, consult physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	Drink plenty of water. If gastrointestinal distress occurs contact 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 flammable.			
Flash point	Not Applicable			
Suitable extinguishing media	Dry chemical, CO ₂ , water spray or alcohol-resistant foam.			
NFPA	Health hazard 0	flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health hazard 0	flammability 0	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Refer to Section 8. Ensure adequate ventilation.
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	Wear personal protective equipment. Refer to Section 8. 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 from freezing. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	CAS-No	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide	1310-73-2	None known	TWA: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Disodium EDTA	139-33-3	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	No special protective equipment required under normal use conditions.

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

Appearance	Clear, colorless	Odor	Odorless
Physical state	liquid	pH	4
Flash point	Not Applicable	Autoignition temperature	Not Applicable
Boiling Point/Range	~ 100 °C / 212 °F	Freezing Point	~ 0 °C / 32 °F
Vapor pressure	No information available	Vapor density	No information available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage.
Incompatible Products	Strong reducing agents. Acids.
Conditions to avoid	Excessive heat.
Hazardous decomposition products	Carbon oxides (COx). Nitrogen oxides (NOx). Sodium oxides.
Hazardous polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	1310-73-2	None known	= 1350 mg/kg (Rabbit)	None known
Disodium EDTA	139-33-3	= 2 g/kg (Rat)	None known	None known
Water	7732-18-5	> 90 mL/kg (Rat)	None known	None known

Chronic toxicity None known

Carcinogenicity

Chemical name	CAS-No	ACGIH	IARC	NTP	OSHA
Sodium hydroxide	1310-73-2	None known	None known	None known	None known
Disodium EDTA	139-33-3	None known	None known	None known	None known
Water	7732-18-5	None known	None known	None known	None known

Endocrine Disruptor Information

Chemical name	CAS-No	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine disrupting potential
Sodium hydroxide	1310-73-2	None known	None known	None known
Disodium EDTA	139-33-3	None known	None known	None known
Water	7732-18-5	None known	None known	None known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	CAS-No	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sodium hydroxide	1310-73-2	None known	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	None known	None known
Disodium EDTA	139-33-3	None known	320: 96 h Poecilia reticulata mg/L LC50 semi-static	EC50 = 56 mg/L 8 h	None known
Water	7732-18-5	None known	None known	None known	None known

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

Bioaccumulation/Accumulation No information available.

Chemical name	CAS-No	Log Pow
Sodium hydroxide	1310-73-2	None known
Disodium EDTA	139-33-3	None known
Water	7732-18-5	None known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations.

Chemical name	CAS-No	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium hydroxide	1310-73-2	None known	None known	None known	None known
Disodium EDTA	139-33-3	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

Chemical name	CAS-No	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium hydroxide	1310-73-2	Present	X	X	Present	X	KE-31487	X	X
Disodium EDTA	139-33-3	Present	X	X	Present	X	KE-13651	X	X
Water	7732-18-5	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 %
Sodium hydroxide	1310-73-2	0.2	None known
Disodium EDTA	139-33-3	2	None known

Water	7732-18-5	to 100%	None known
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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).

Chemical name	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1310-73-2	None known	None known	None known	None known
Disodium EDTA	139-33-3	None known	None known	None known	None known
Water	7732-18-5	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 HAPs.

Chemical name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Sodium hydroxide	1310-73-2	0.2	None known	None known	None known	None known
Disodium EDTA	139-33-3	2	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	CAS-No	Hazardous Substances RQs	CERCLA/SARA RQ
Sodium hydroxide	1310-73-2	1000 lb	None known
Disodium EDTA	139-33-3	None known	None known
Water	7732-18-5	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
Sodium hydroxide	1310-73-2	None known
Disodium EDTA	139-33-3	None known
Water	7732-18-5	None known

U.S. State Right-to-Know Regulations

Chemical name	CAS-No	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	1310-73-2	X	X	X	None known	X
Disodium EDTA	139-33-3	None known	None known	None known	None known	None known
Water	7732-18-5	None known	None known	None known	None known	None known

International Regulations**Mexico - Grade**

Chemical name	CAS-No	Carcinogen Status	Exposure Limits
Sodium hydroxide	1310-73-2	None known	None known
Disodium EDTA	139-33-3	None known	None known
Water	7732-18-5	None known	None known

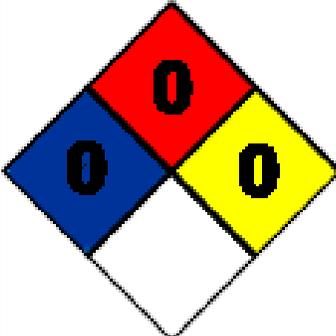
Canada

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	CAS-No	WHMIS Hazard Class
Sodium hydroxide 1310-73-2 (0.2)	1310-73-2	1 % E
Disodium EDTA 139-33-3 (2)	139-33-3	Uncontrolled product according to WHMIS classification criteria
Water 7732-18-5 (to 100%)	7732-18-5	Uncontrolled product according to WHMIS classification criteria

Chemical name	CAS-No	NPRI
Sodium hydroxide	1310-73-2	
Disodium EDTA	139-33-3	
Water	7732-18-5	

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">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 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