



Issuing Date 3/5/2013

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** QAC TITRATION SOLUTION  
**Product Code(s)** 6412  
**Synonyms** none  
**Recommended Use** Laboratory chemicals. Industrial (not for food or food contact use). Test kit reagent.  
**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  
Harmful if swallowed  
**Appearance** Clear, Colorless **Physical State** Liquid **Odor** None

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

**Acute Toxicity**  
**Eyes** May cause irritation.  
**Skin** May cause irritation.  
**Inhalation** Not an expected route of exposure.  
**Ingestion** Harmful if swallowed.

**Chronic Effects** None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Borate(1-), tetraphenyl-, sodium	143-66-8	0.5
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. If skin irritation persists, call a physician.

**Inhalation** Not expected to require first aid measures.

**Ingestion** Drink plenty of water. Clean mouth with water. Never give anything by mouth to an unconscious person. Consult a 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<sub>2</sub>), or foam.

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

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Refer to Section 8.

**Methods for Cleaning Up** Use personal protective equipment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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. Protect from light. Keep out of the reach of children.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Borate(1-), tetraphenyl-, sodium 143-66-8	None Known	None Known	None Known
Water 7732-18-5	None Known	None Known	None Known

**Personal Protective Equipment**

**Eye/Face Protection** Safety glasses with side-shields. Goggles.

**Skin and Body Protection** Wear protective gloves/clothing.

**Respiratory Protection** 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>	8
<b>Flash Point</b>	Not applicable	<b>Boiling Point/Range</b>	ca. 100°C/212°F

<b>Vapor Pressure</b>	No data available	<b>Vapor Density</b>	No data available
-----------------------	-------------------	----------------------	-------------------

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions of use and storage.
<b>Incompatible Products</b>	Strong oxidizing agents.
<b>Conditions to Avoid</b>	Heat, flames and sparks. Exposure to light.
<b>Hazardous Decomposition Products</b>	Carbon oxides (COx). Boron oxides. Sodium oxides.
<b>Hazardous Reactions</b>	None under normal processing.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Borate(1-), tetraphenyl-, sodium	288 mg/kg ( Rat )	None Known	None Known
Water	90 mL/kg ( Rat )	None Known	None Known

Chronic Toxicity

**Chronic Toxicity** None known.

Chemical Name	ACGIH	IARC	NTP	OSHA
Borate(1-), tetraphenyl-, sodium	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Borate(1-), tetraphenyl-, sodium	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)
Borate(1-), tetraphenyl-, sodium	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known
Chemical Name	Log Pow			
Borate(1-), tetraphenyl-, sodium	None Known			
Water	None Known			

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method**

This material, as supplied, is not a hazardous waste according to state and 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 pursuant to Federal regulations, and the applicable state requirements for the specific area of disposal. Consult the appropriate state, regional, or local regulations for additional requirements. Dispose according to federal, state, and local regulations. If permitted, dissolve in large volume of water and rinse to drain with excess water.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Borate(1-), tetraphenyl-, sodium - 143-66-8	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
Borate(1-), tetraphenyl-, sodium 143-66-8 ( 0.5 )	Present	X	X	3-2553	X	KE-31629	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 %

Borate(1-), tetraphenyl-, sodium	143-66-8	0.5	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**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Borate(1-), tetraphenyl-, sodium 143-66-8 ( 0.5 )	None Known	None Known	None Known	None Known
Water 7732-18-5 ( to 100% )	None Known	None Known	None Known	None Known

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Borate(1-), tetraphenyl-, sodium	143-66-8	0.5	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
Borate(1-), tetraphenyl-, sodium	None Known	None Known
Water	None Known	None Known

**U.S. State Regulations**

Chemical Name	CAS-No	California Prop. 65
Borate(1-), tetraphenyl-, sodium	143-66-8	None Known
Water	7732-18-5	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Borate(1-), tetraphenyl-, sodium	None Known	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known	None Known

**International Regulations**

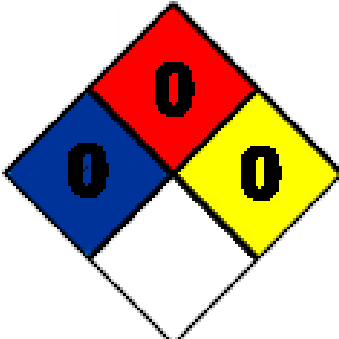

**Mexico - Grade**

Chemical Name	Carcinogen Status	Exposure Limits
Borate(1-), tetraphenyl-, sodium	None Known	None Known
Water	None Known	None Known

**Canada**

Component	WHMIS Hazard Class
Borate(1-), tetraphenyl-, sodium 143-66-8 ( 0.5 )	Not determined
Water 7732-18-5 ( to 100% )	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td data-bbox="513 195 732 243">Health Hazard</td> <td data-bbox="738 195 818 243">0</td> </tr> <tr> <td data-bbox="513 243 732 291">Fire Hazard</td> <td data-bbox="738 243 818 291">0</td> </tr> <tr> <td data-bbox="513 291 732 340">Reactivity</td> <td data-bbox="738 291 818 340">0</td> </tr> </table>	Health Hazard	0	Fire Hazard	0	Reactivity	0		
Health Hazard	0								
Fire Hazard	0								
Reactivity	0								

Prepared By Regulatory Affairs Department  
 Issuing Date 3/5/2013  
 Revision Date -  
 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**