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**SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Identification**

Product Name: **SeaQuest<sup>®</sup> Liquid**

Date: June 26, 2020

**Use of the product**

Liquid-Potable water treatment compound for Corrosion & Scale Control, Sequestering NSF<sup>®</sup> Listed

DWI Listed

**Company information**

**Aqua Smart, Inc.**

4445 Commerce Dr SW Ste. A-4

Atlanta, GA 30336-1962

Emergency Telephone: In USA call Aqua Smart, Inc.:  
404-696-4406 or 1-800-278-2762

Outside the USA, including ships at sea, call Aqua Smart, Inc.:  
+1-404-696-4406 or +1-800-278-2762

General Information: +1-404-696-4406 or +1-800-278-2762 (Worldwide)

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**SECTION 2 – HAZARD(S) IDENTIFICATION**

**USA:**

GHS- This product does not meet the criteria for classification under GHS.

Not classified as: "Hazardous Chemicals" in normal use in 29 CFR section 1910.1200

According to OSHA 29 CRF 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 \* Not classified

2.2 Label elements

OSHA HCS 2012

Hazard statements \* No label element(s) required

2.3 Other Hazards

OSHA HCS 2012

\* This product is not considered hazardous under the U.S.  
OSHA 29 CFR 1910.1200 Hazard Communication Standard.

**EU/EEC:**

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP \* Not classified

DSD/DPD \* Not classified

2.2 Label elements

CLP

Hazard statements \* No label element(s) required

DSD/DPD

Risk phrases \* No label element(s) required

2.3 Other Hazards

CLP \* According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.

DSD/DPD \* This product is not considered dangerous under the European Directive 67/548/EEC

**CANADA:**

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS \* Not classified

2.2 Label elements

WHMIS \* No label element(s) required

2.3 Other hazards

WHMIS \* In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS)

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**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

**Composition**

Substance

SeaQuest: Blend of inorganic phosphates / Liquid-Potable water treatment compound for Corrosion & Scale Control, Sequestering CAS No.: 14265-44-2 100 % w/w

NSF® Listed: Maximum use level in potable water = 28.0 mg/l

DWI Listed

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## SECTION 4 – FIRST AID MEASURES

### General

Likely Routes of Exposure: Eye and Skin contact.

### Eye Contact

In case of contact, flush with plenty of water for 15 minutes. If irritation persists, get medical attention.

### Skin Contact

In case of contact, wash with soap and water. If irritation persists, get medical attention.

### Inhalation

No emergency care anticipated

### Ingestion

No emergency care anticipated. Treat symptomatically.

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## SECTION 5 - Fire Fighting Measures

### Extinguishing media

Non-combustible. No special requirement.

### Unsuitable extinguishable media

Non-combustible. No special requirement.

### Exposure hazards

No special considerations.

### Protective equipment

As a general precaution, firefighters and others exposed, wear self-contained breathing apparatus.

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## SECTION 6 – ACCIDENTIAL RELEASE MEASURES

### Personal precautions

Avoid unnecessary exposure and remove all material from eyes, skin and clothing.

### Environmental precautions

Small or large quantities: Avoid discharge into the environment.

### Method of cleaning up

If spilled, soak up on mineral clay absorbent material.

### Waste disposal methods

To dispose of, check with Federal, State and local regulations.

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**SECTION 7 – HANDLING AND STORAGE**

**Handling**

Gloves are recommended to avoid skin contact.

Goggles / safety glasses are recommended to avoid eye contact.

**Storage**

Keep container closed when not in use.

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**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Hand / Skin Protection**

Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

**Eye Protection**

This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact. Refer to OSHA 29 CFR 1910.133 or European Standard EN166.

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**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

- a) Appearance: Clear to slight hazy, colorless liquid
- b) Odor: None
- c) Odor threshold: Undetermined
- d) Boiling Point: Not applicable
- e) Specific gravity: 1.300-1.350
- f) Vapor pressure: Not applicable (mm Hg)
- g) Solubility: Water: 300 parts in 100 parts of water
- h) Flash point: Undetermined
- i) Flammability (solid, gas): Lower limits

**NOTE:** The physical data is based on typical values from material testing but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

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**SECTION 10 – STABILITY AND REACTIVITY**

Product is stable under normal conditions of storage and handling.

**Conditions to avoid**

None known.

**Materials to avoid**

None known.

**Hazardous decomposition**

None known.

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**SECTION 11 – TOXICOLOGICAL INFORMATION**

The liquid may cause slight foreign body irritation in some individuals. Prolonged contact with the product may cause blistering on the skin upon frequent, repeated, or prolonged contact.

NSF<sup>®</sup> Listed (U.S.A.)

On the Inspectorate Website Listed, Drinking Water Inspectorate (U.K.) DWI

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**SECTION 12 – ECOLOGICAL INFORMATION**

**Environmental toxicity**

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity.

Invertebrate: 48-hr LC50 - Daphnia Magna >500mg/l; non-toxic

Warm-water fish: 96-hr LC50 - Inland Silverfish >1000mg/l; non-toxic

Coldwater fish: 96-hr LC50 – Rainbow Trout >1000mg/l; non-toxic

**Environmental fate**

No definite algal toxicity or biodegradation data was available for this material.

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**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste information**

Waste must be disposed of in accordance with the federal, provincial and local environmental regulations.

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**SECTION 14 – TRANSPORT INFORMATION**

US DEPARTMENT OF TRANSPORTATION

**DRUMS:**

Not Regulated

Proper Shipping Name: SeaQuest® Liquid Blended Phosphate  
Non-Hazardous – NNMFC 043800-01

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**SECTION 15 – REGULATORY INFORMATION**

**TSCA STATUS:**

All components of this product are listed in the TSCA inventory.

**DSL:**

All components are on the Domestic Substance List

**CANADIAN WHIMS:**

Not a “Hazardous Product” under WHIMS classifications.

WHIMS Classification: Not Controlled

**EC Label**

None

**Non-Hazardous Schedule B #**

2835.39.00

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) classification.

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**SECTION 16 – OTHER INFORMATION**

This product is certified to NSF/ANSI 60 by NSF® International for use in potable water.

Reason for revision: Revised all sections to be compliant with OSHA / GHS regulations.  
Supersedes MSDS dated: January 21, 2020

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of the completeness of the information contained herein.

# Phosphorus, Total

PhosVer® 3 with Acid Persulfate Digestion  
Method

★Method 8190

Test 'N Tube™ Vials

(0.06 to 3.50 mg/L PO<sub>4</sub><sup>3-</sup> or 0.02 to 1.10 mg/L P)

Scope and Application: For water, wastewater, and seawater; USEPA Accepted for reporting wastewater analyses



## Test Preparation

### Before starting the test:

**Important Note:** Install the light shield in Cell Compartment #2 before performing this test.

For more accurate results, determine a reagent blank value for each new lot of reagent. Follow the procedure using deionized water in place of the sample. Subtract the reagent blank value from the final results or perform a reagent blank adjust.

The test range for total phosphate is limited to 0.06 to 3.5 mg/L PO<sub>4</sub><sup>3-</sup>. Values greater than 3.5 mg/L may be used to estimate dilution ratios, but should NOT be used for reporting purposes. If the value is greater than 3.5 mg/L, dilute the sample and repeat the digestion and the colorimetric test.

Final samples will contain molybdenum. In addition, final samples will have a pH less than 2 and are considered corrosive (D002) by the Federal RCRA. Refer to the current MSDS for safe handling and disposal instructions.

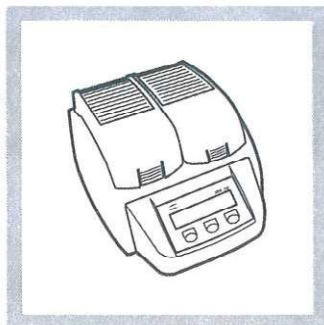
### Collect the following items:

	Quantity
Total Phosphorus Test 'N Tube™ Reagent Set	1
Deionized water	varies
DRB200 Reactor	1
Funnel, micro	1
Light Shield	1
Pipet, TenSette®, 1 to 10 mL, plus tips	
Test Tube Rack	1

**Note:** Reorder information for consumables and replacement items is on page 6.

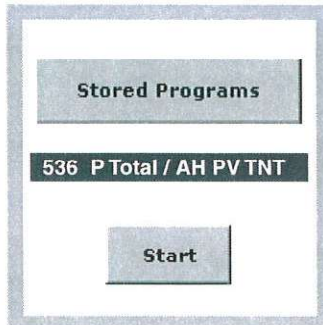
Test 'N Tube

Method 8190

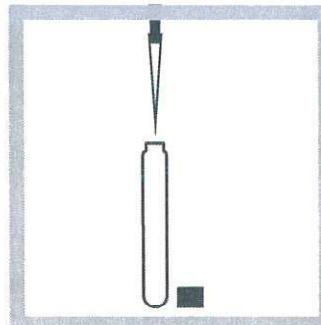


1. Turn on the DRB200 Reactor. Preheat to 150 °C.

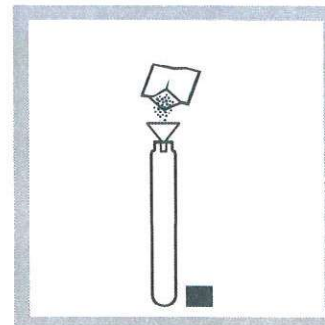
See the DRB200 User Manual for selecting pre-programmed temperature applications.



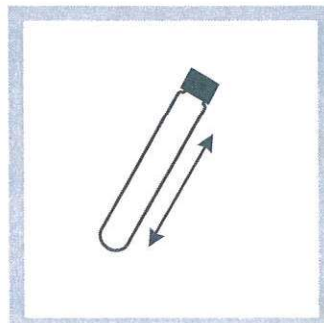
2. Select the test.  
Install the Light Shield in Cell Compartment #2.



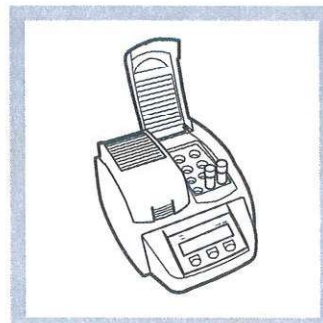
3. Use a TenSette® Pipet to add 5.0 mL of filtered sample to a Total and Acid Hydrolyzable Test Vial.



4. Use a funnel to add the contents of one Potassium Persulfate Powder Pillow for Phosphonate to the vial.



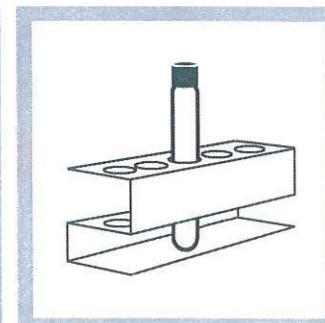
5. Cap tightly and shake to dissolve.



6. Insert the vial into the DRB200. Close the protective cover.



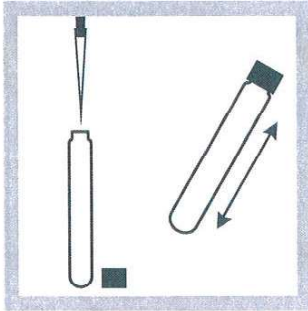
7. Press **TIMER>OK**.  
A 30-minute heating period will begin.



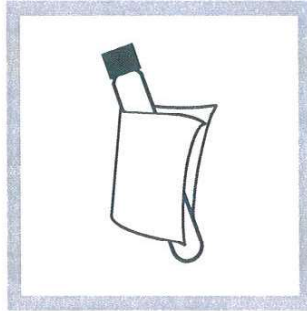
8. When the timer expires, carefully remove the hot vial from the reactor. Insert it in a test tube rack and cool to room temperature.



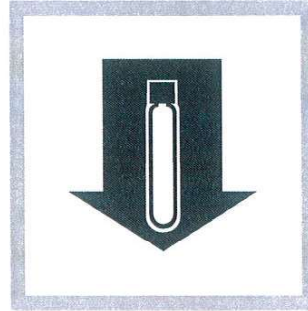
Phosphorus, Total (0.06 to 3.50 mg/L PO<sub>4</sub><sup>3-</sup> or 0.02 to 1.10 mg/L P)



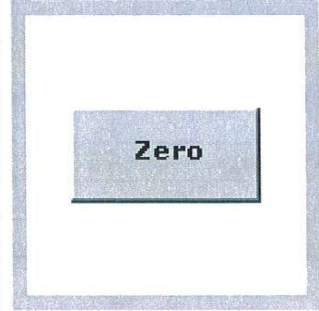
9. Use a TenSette Pipet to add 2 mL of 1.54 N Sodium Hydroxide Standard Solution to the vial. Cap and mix.



10. Wipe the outside of the vial with a damp cloth followed by a dry one.



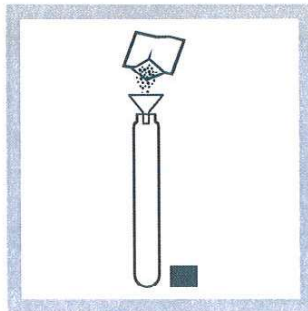
11. Insert the vial into the 16 mm cell holder.



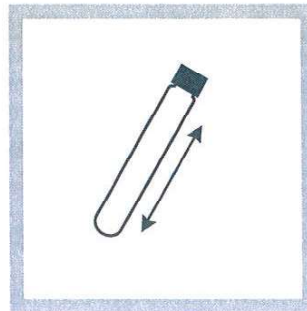
12. Press **ZERO**.

The display will show:

0.00 mg/L PO<sub>4</sub><sup>3-</sup>



13. Use a funnel to add the contents of one PhosVer 3 Powder Pillow to the vial.



14. Immediately cap tightly and shake to mix for 20–30 seconds.

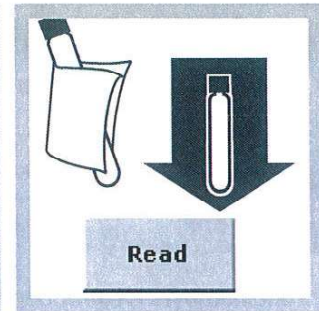
The powder will not dissolve completely.



15. Press **TIMER>OK**.

A two-minute reaction period will begin.

Read the sample within 2–8 minutes after the timer expires.



16. After the timer expires, wipe the outside of the vial with a wet towel, then a dry one. Insert the prepared sample vial into the 16 mm cell holder.

Press **READ**. Results are in mg/L PO<sub>4</sub><sup>3-</sup>.

## Consumables and Replacement Items

### Required Reagents

Description	Quantity/Test	Unit	Cat. No.
Total Phosphorus Test 'N Tube™ Reagent Set, 50 tests, includes:	—	—	27426-45
PhosVer® 3 Phosphate Reagent Powder Pillows	1	50/pkg	21060-46
Potassium Persulfate Powder Pillows	1	50/pkg	20847-66
Sodium Hydroxide Solution, 1.54 N	2 mL	100 mL	27430-42
Total and Acid Hydrolyzable Test Vials <sup>1</sup>	1	50/pkg	—
Water, deionized	varies	4 L	272-56

<sup>1</sup> Not sold separately

### Required Apparatus

Description	Quantity/Test	Unit	Cat. No.
DRB200 Reactor, 110 V, 15 x 16 mm	1	each	LTV082.53.40001
DRB200 Reactor, 220 V, 15 x 16 mm	1	each	LTV082.52.40001
Funnel, micro	1	each	25843-35
Light Shield	1	each	LZV646
Pipet, TenSette®, 1.0 to 10 mL	1	each	19700-10
Pipet Tips for TenSette Pipet 19700-10	1	250/pkg	21997-25
Pipet, volumetric, Class A, 2.00 mL	1	each	14515-36
Test Tube Rack	1-2	each	18641-00

### Recommended Standards

Description	Unit	Cat. No.
Drinking Water Standard, Mixed Parameter, Inorganic for F <sup>-</sup> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub>	500 mL	28330-49
Phosphate Standard Solution, 10-mL Voluette® Ampule, 50-mg/L as PO <sub>4</sub> <sup>3-</sup>	16/pkg	171-10
Phosphate Standard Solution, 1-mg/L as PO <sub>4</sub> <sup>3-</sup>	500 mL	2569-49
Phosphate Standard Solution, 3 mg/L as PO <sub>4</sub> <sup>3-</sup>	946 mL	20597-16
Wastewater Standard, Effluent Inorganics, for NH <sub>3</sub> -N, NO <sub>3</sub> -N, PO <sub>4</sub> , COD, SO <sub>4</sub> , TOC	500 mL	28332-49

### Optional Reagents

Description	Cat. No.
Cylinder, mixing, 25 mL	1896-40
Hydrochloric Acid Solution, 1:1, 500 mL	884-49
Sodium Hydroxide, 5.0 N, 1000 mL	2450-53
Sulfuric Acid, concentrated, 500 mL	979-49



FOR TECHNICAL ASSISTANCE, PRICE INFORMATION AND ORDERING:

In the U.S.A. – Call toll-free 800-227-4224

Outside the U.S.A. – Contact the HACH office or distributor serving you.

On the Worldwide Web – [www.hach.com](http://www.hach.com); E-mail – [techhelp@hach.com](mailto:techhelp@hach.com)

HACH COMPANY

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