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Pentair R161056

Pentair R161056 No.2 OTO Solution User Manual

Product: No.2 OTO Solution
Model: R161056

Introduction

The Pentair R161056 No.2 OTO Solution is a chemical reagent designed for testing chlorine and bromine levels in pool and spa water. This 16-ounce bottle provides a reliable and efficient way to monitor water chemistry, ensuring proper sanitation and balance for a safe swimming environment. It serves as a replacement for Rainbow Solution "A" in standard pool testing kits.

Safety Information

WARNING: This product contains chemicals that require careful handling. Always read and follow all instructions and warnings before use.

- **California Proposition 65 Warning:** This product contains a chemical known to the State of California to cause cancer.
- **Irritant Warning:** This solution is an irritant. Avoid contact with skin and eyes.
- **Keep Out of Reach of Children:** Store in a secure location inaccessible to children.
- **Keep Solution Out of Pool:** Do not directly add this solution to the pool water, only to test samples.
- **Contains:** 0.1% Orthotolidine, 3.75% Hydrochloric acid.

First Aid Measures:

- **Eyes:** Flush with water for 15 minutes. Seek immediate medical attention.
- **Skin:** Wash with soap and water thoroughly. If irritation persists, seek medical attention.
- **If Swallowed:** Call a physician immediately. Do not induce vomiting.



Image: Pentair R161056 No.2 OTO Solution bottle. The label clearly displays safety warnings, including irritant warnings, first aid instructions, and a California Proposition 65 warning. It also indicates the product replaces Rainbow Solution "A" and is for Chlorine/Bromine testing.

Product Overview

The Pentair R161056 No.2 OTO Solution is specifically formulated for accurate measurement of free chlorine and total bromine levels in pool and spa water. Its large 16-ounce volume ensures a long-lasting supply for routine testing.

- Test reagents for OTO solution.
- 16-ounce solution bottle (480 mL).
- Replaces Rainbow Solution "A".
- Designed for chlorine and bromine testing.

Setup

Before performing a test, ensure you have the necessary equipment and a safe testing environment.

- **Gather Equipment:** You will need a pool/spa test kit that includes a test cell (vial) and a color comparison chart for OTO (Orthotolidine) tests.
- **Prepare Area:** Work in a well-ventilated area, away from direct sunlight, which can affect test results.
- **Safety Gear:** Consider wearing protective gloves and eyewear to prevent skin and eye contact with the solution.

Operating Instructions

Follow these steps to accurately test your pool or spa water using the Pentair R161056 No.2 OTO Solution:

1. **Collect Water Sample:** Dip the clean test cell into the pool or spa water to elbow depth, away from return jets, to collect a representative sample. Fill the test cell to the indicated fill line.
2. **Add OTO Solution:** Hold the Pentair R161056 No.2 OTO Solution bottle vertically and add the recommended number of drops (typically 5 drops, but refer to your specific test kit's instructions) into the water sample in the test cell.
3. **Mix Sample:** Cap the test cell tightly and invert it several times to thoroughly mix the solution with the water sample.
4. **Observe Color Change:** Wait approximately 10-20 seconds for the color to develop. The water sample will change color, typically from clear to various shades of yellow, depending on the chlorine or bromine level.
5. **Compare to Color Chart:** Hold the test cell against the white background of your test kit's color comparison chart. Match the color of your water sample to the closest color on the chart to determine the chlorine or bromine concentration.
6. **Record Results:** Note down your readings for future reference and to track trends in your water chemistry.
7. **Rinse Test Cell:** After testing, thoroughly rinse the test cell with clean water to prevent contamination for future tests.

Maintenance and Storage

Proper storage of the Pentair R161056 No.2 OTO Solution is essential to maintain its effectiveness and ensure safety.

- **Storage Conditions:** Store the bottle in a cool, dry, and dark place. Avoid direct sunlight and extreme temperatures, as these can degrade the chemical.
- **Keep Tightly Capped:** Always ensure the cap is securely tightened after each use to prevent evaporation and contamination.
- **Shelf Life:** While the solution has a good shelf life, it is recommended to replace it periodically (e.g., annually) to ensure accuracy, especially if stored in less than ideal conditions.
- **Disposal:** Dispose of expired or unused solution according to local environmental regulations. Do not pour down drains or dispose of in regular trash.

Troubleshooting

If you encounter issues with your OTO test results, consider the following common problems and solutions:

Problem	Possible Cause	Solution
No color change or very faint color	Low chlorine/bromine level; Expired or degraded OTO solution; Insufficient drops added.	Add more sanitizer to pool/spa; Replace OTO solution; Ensure correct number of drops are added.
Color too dark to read	Very high chlorine/bromine level.	Dilute sample with distilled water and retest (adjusting calculation); Reduce sanitizer levels in pool/spa.

Problem	Possible Cause	Solution
Inconsistent readings	Contaminated test cell; Sample taken too close to return jet; Solution not properly mixed.	Thoroughly rinse test cell before each use; Take sample from middle of pool/spa; Ensure proper mixing by inverting test cell.

Specifications

Attribute	Detail
Product Name	No.2 OTO Solution
Model Number	R161056
Brand	Pentair
Volume	16 Ounces (480 mL)
Chemical Composition	0.1% Orthotolidine, 3.75% Hydrochloric acid
Product Dimensions	7.75 x 8.5 x 10.25 inches
Item Weight	1.16 pounds
Manufacturer	Pentair

Warranty and Support

For specific warranty information regarding the Pentair R161056 No.2 OTO Solution, please refer to the documentation provided with your original purchase or contact Pentair customer support directly. As a chemical reagent, typical warranties may cover manufacturing defects but not degradation due to improper storage or handling.

For technical assistance, product inquiries, or to report issues, please visit the official Pentair website or contact their customer service department. Always provide your product model number (R161056) when seeking support.

Pentair Official Website: www.pentair.com

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