

# GUIDE to CHLORINE\* FREE POOL WATER TREATMENT

Expert since 1928



\*active



[hth-pool.com](http://hth-pool.com)

Expert since 1928



## Why choose a treatment with active oxygen or bromine?



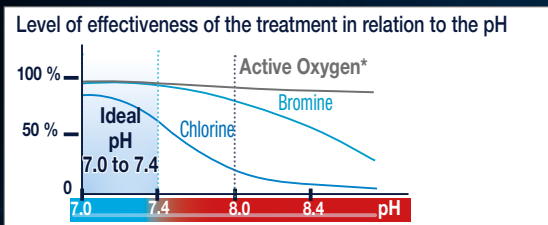
### FOR MORE PLEASANT BATHING

An odourless swim is so much nicer.

### NO ISOCYANURIC ACID (STABILISER)

Avoid pool over-stabilisation in the event of treatment with stabilised chlorine.

### FEWER CONSTRAINTS IN MONITORING THE pH



\*100% corresponds to product effectiveness at pH 6 taken as a benchmark.

### PREVENTS EQUIPMENT CORROSION

These products do not damage the pool liners.

### COMPATIBLE WITH OTHER DISINFECTANTS

(except P.H.M.B.)

### BROMINE IS EFFICIENT AT HIGH TEMPERATURES

This makes it perfect for heated pools, pools that have a lot of sun exposure and for spas.

# Regular treatment with **active oxygen**

The first multi-purpose active oxygen **product in water-soluble sachet form!**

## **hth**<sup>®</sup> **OXYGEN** **3 in 1**






- 200 g pre-dosed tablets for 15 m<sup>3</sup>
- Use with **hth**<sup>®</sup> BROME ACTIVATOR Oxygen Shock chlorine-free

**3 actions** in a single gesture:

- ✓ **Anti-bacterial**
- ✓ **Anti-algae**
- ✓ **Clarifier**



3.2 kg bucket  
= 16 treatments  
= around 4 months of  
treatment for 15 m<sup>3</sup>

Ideal pH analysis	Filtration	Dosage	Frequency	In
Between 7.0 and 7.4	In operation 	1 tablet  =  15 m <sup>3</sup>	Every week	The skimmer or the floating diffuser  

### **Did you know? ...**

- Use with **hth**<sup>®</sup> SUPER KLERAL<sup>®</sup> for better effectiveness
- Recommended in strong heat conditions and/or frequent pool use
- One dose every 15 days only



# Regular treatment with **bromine**

## **hth**® **Brome**






For optimal treatment: effective even at high Ph

### Characteristics:

- ✓ 20 g slow-dissolving, residue-free tablets
- ✓ Destroys bacteria, viruses and fungi in the water
- ✓ Fights algae and prevents their reappeara
- ✓ No contact: a glove inside the pack



For optimal disinfection, a bromine regenerating treatment with hth BROME ACTIVATOR is necessary in case of high heat and/or heavy use.

Ideal analysis	Filtration	Dosage	Frequency	In
pH between 7.0 and 7.6 Bromine: > 2 mg/l	In operation 	x 10  =  10 m <sup>3</sup>	Every week	The skimmer, the floating diffuser or the brominator*   

\* Adjust the addition of tablets or brominator injection to maintain the desired level of bromine on analysis.

**The ideal solution for optimal bathing!**



**hth**® **BROME**

+



**hth**® **BROME ACTIVATOR**



# Shock Treatment **with no chlorine**





## **hth**<sup>®</sup> **BROME ACTIVATOR** *Oxygen shock*

**hth**<sup>®</sup> BROME ACTIVATOR Oxygen Shock is used during shock disinfection to fix green water or cloudy water quickly or if there are a lot of people using the pool.

- Active Oxygen powder with very fast action
- High level of active materials
- Suitable for all types of water, even very hard water
- 2.3 kg bottle with handle and measuring cap
- Recommended at the start of the season and once per month during hot periods and/or frequent use.



Available in a 5 kg bucket

Ideal pH analysis	Filtration	Dosage	In
Between 7.0 and 7.4	In operation 	1/2 capful  =  20 m <sup>3</sup>	Spread the product in the pool in front of the discharge nozzles, if available 



### Did you know? ...

**hth**<sup>®</sup> products with active oxygen and bromine are compatible with chlorine.  
It is possible to perform shock treatment with **hth**<sup>®</sup> SHOCK<sup>®</sup> (calcium hypochlorite)



**EXERCISE PRECAUTION WHEN USING CHEMICAL POOL TREATMENTS.**

**BEFORE USING, READ THE LABEL AND INFORMATION ABOUT THE PRODUCT ON [HTH-POOL.COM](http://HTH-POOL.COM)**

# Guide for water treatment with active Oxygen / Bromine

Why?	Why?	Using what?	When?
<b>1</b> <b>WATER BALANCE</b>	FOR PLEASANT BATHING	<b>hth</b> <sup>®</sup> pH MINUS <b>hth</b> <sup>®</sup> pH PLUS <b>hth</b> <sup>®</sup> ALKANAL 	ideal pH 7.0 - 7.4  <b>EVERY WEEK AND BEFORE EACH USE</b>
<b>2</b> <b>SHOCK TREATMENT</b>	TO SANITISE THE WATER ON OPENING OR IN THE EVENT OF GREEN/CLOUDY WATER	<b>hth</b> <sup>®</sup> BROME ACTIVATOR <i>Oxygen shock</i> 	<b>AFTER SYSTEMATIC CONTROL USING BROMINE/OXYGEN/pH TESTS</b>
<b>3</b> <b>REGULAR TREATMENT</b>	TO ENSURE CLEAN WATER	OXYGEN: <b>hth</b> <sup>®</sup> OXYGEN <i>3 in 1</i> BROMINE: <b>hth</b> <sup>®</sup> BROME 	Recommended level of active oxygen > 0.4 mg/l bromine > 2 mg/l
<b>4</b> <b>ALGAEICIDE AND CLARIFYING TREATMENT</b>	TO MAINTAIN CRYSTAL-CLEAR WATER	<b>hth</b> <sup>®</sup> SUPER KLERAL <sup>®</sup> Green water prevention <b>hth</b> <sup>®</sup> GREEN TO BLUE <sup>®</sup> 	<b>1 OR 2 TIMES PER MONTH AS PREVENTION DEPENDING ON FREQUENCY OF POOL USE AND QUALITY OF THE WATER</b>
<b>5</b> <b>FLOCCULANT CLARIFIER</b>	TO OPTIMISE FINE FILTERING	<b>hth</b> <sup>®</sup> REGULARFLOC <sup>®</sup> or <b>hth</b> <sup>®</sup> UNIFLOC <sup>®</sup> 	<b>ONCE PER YEAR WHEN THE TEMPERATURE OF THE WATER IS &lt; 15°C</b>
<b>WINTERISING</b>	TO FACILITATE POOL REOPENING IN SPRING	<b>hth</b> <sup>®</sup> SUPER WINTERPROTECT <b>hth</b> <sup>®</sup> FILTERWASH <b>hth</b> <sup>®</sup> BORKLER <sup>®</sup> GEL 	<b>ONCE PER YEAR WHEN THE TEMPERATURE OF THE WATER IS &lt; 15°C</b>

**CAUTION:**

- Do not mix products
- Refer to the instructions on the label
- Ask your retailer for advice

Expert since 1928

The logo for hth, featuring the lowercase letters 'hth' in a bold, red, sans-serif font. The letters are set against a white circular background that has a glowing, sunburst-like effect around its perimeter. The entire logo is centered within a dark blue, trapezoidal shape that tapers towards the top.A blue rectangular sticky note with a pink pushpin at the top left corner. The text on the note is white and reads: 'Regularly clean the filter and water line and brush the walls of the pool'. The note is tilted slightly to the right.

Regularly clean the filter and water line and brush the walls of the pool

## Filtration

Sufficient filtering time and maintaining a clean filter are essential for the balance of the water in your pool.

**Recommended filtering time:**  
temperature of the water/2 + 1 hour

# Problems & Solutions

## Problem

## Causes and remedies

### Milky or cloudy water

- The pH is incorrect: readjust the pH to between 7.0 and 7.4, then perform shock treatment with **hth**<sup>®</sup> BROME ACTIVATOR Oxygen Shock.
- The treatment does not suffice: perform shock treatment with **hth**<sup>®</sup> BROME ACTIVATOR Oxygen Shock, flocculation with **hth**<sup>®</sup> REGULARFLOC<sup>®</sup> (only for sand filters), **hth**<sup>®</sup> RAPIDFLOC<sup>®</sup> or **hth**<sup>®</sup> UNIFLOC<sup>®</sup>.  
Carry out repeated washing of the filter and run the filtration for 24 hours.
- Insufficient filtration: increase the filtering time.

### Green water

- Formation of algae: shock the pool with **hth**<sup>®</sup> BROME ACTIVATOR Oxygen Shock, wash and rinse the filter, add one or several cartridges of **hth**<sup>®</sup> REGULARFLOC<sup>®</sup> flocculant (if you have a sand filter) to the skimmer and use a concentrated algacide **hth**<sup>®</sup> SUPER KLERAL<sup>®</sup>.

### Clear green water

- Presence of copper: check the TAC (ideal value 80 to 120 mg/l 8 to 12 °f) and use **hth**<sup>®</sup> METAL-STOP metal sequestrant. If necessary, perform liquid flocculation with **hth**<sup>®</sup> RAPIDFLOC<sup>®</sup>, with filtration stopped for 12 hours, then vacuum the deposits and send them to the drain without going through the filter.

# Problems & Solutions

## Problem

## Causes and remedies

<b>Brown / rusty / black water</b>	<ul style="list-style-type: none"><li>• Presence of iron or manganese: adjust the pH and use <b>hth</b><sup>®</sup> METALSTOP metal sequestrant. If necessary, carry out liquid flocculation with <b>hth</b><sup>®</sup> RAPIDFLOC<sup>®</sup>, with filtration stopped for 12 hours, then vacuum the deposits and send them to the drain without going through the filter.</li></ul>
<b>Calcium deposits</b>	<ul style="list-style-type: none"><li>• pH incorrect: adjust the pH to between 7.0 and 7.4.</li><li>• Very hard: add <b>hth</b><sup>®</sup> STOP-CALC limescale remover every week. It is recommended to perform preventive treatment at the start of the season or when filling the pool using <b>hth</b><sup>®</sup> STOP-CALC.</li></ul>
<b>Eye and skin irritation</b>	<ul style="list-style-type: none"><li>• The pH is too low: adjust the pH to between 7.0 and 7.4 with <b>hth</b><sup>®</sup> pH PLUS powder or liquid.</li></ul>
<b>Unstable pH</b>	<p>Ideal TAC value: 80 to 120 mg/l (8 to 12 °f).</p> <ul style="list-style-type: none"><li>• The TAC is too high: add <b>hth</b><sup>®</sup> pH MINUS.</li><li>• The TAC is too low: use <b>hth</b><sup>®</sup> ALKANAL, alkalinity corrector.</li></ul>
<b>Incorrect pH</b>	<ul style="list-style-type: none"><li>• The pH is too high: check the pH frequently, then add <b>hth</b><sup>®</sup> pH MINUS.</li><li>• The pH is too low: check the pH frequently, then add <b>hth</b><sup>®</sup> pH PLUS.</li></ul>
<b>Abnormally high pressure on the filter pressure gauge</b>	<ul style="list-style-type: none"><li>• The filter is dirty: perform filter cleaning. If the pressure continues, descale the filter with <b>hth</b><sup>®</sup> FILTERWASH filter cleaner and descaler.</li></ul>

Regularly take a water sample to your pool retail specialist for a full analysis and appropriate advice.

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# The families in the range

## WATER BALANCE

Correct adjustment of the pH and TAC is essential to avoid a number of problems: development of algae, eye and skin irritation...



## NON STABILISED CHLORINE

Calcium hypochlorite is both a disinfectant and a powerful oxidant that also does not generate cyanuric acid responsible for over-stabilising pool water.



## STABILISED CHLORINE

Disinfection must be ongoing in order to prevent the proliferation of micro-organisms. A wide range covering the needs of above-ground and inground swimming pools.



## BROMINE AND ACTIVE OXYGEN

These products offer bathing comfort for all the family.



## PREVENTION / SOLUTIONS

A complete range of products to resolve problems related to water treatment and also to prevent their return.



Expert since 1928



Opening video



How to **calculate**  
the **volume** of your pool?

**Rectangular**



**Round**



**Oval**



**Freeform**



How to **stabilize**  
the **pH** of your pool?

**Ideal pH value : 7.0 - 7.4**



Any questions about treating your water?  
Contact our Customer Service:

**+44 (0) 1924 792909**

**hth-pool.com**