

# HTH Scientific® Chips & Granular

## Effective Bactericide and Fungicide for Commercial Swimming Pools

### Chips & Granular

HTH Scientific® Chips and Granular aids in controlling bacteria and algae as well as eliminating odours. An effective bactericide and fungicide for the disinfection of commercial swimming pool waters.



### Application

- HTH Scientific® Chips is designed for use with Lonza Chip Feeder Systems
- HTH Scientific® Granular is for use in manual dosing applications

Typical Properties	Product Packaging
Appearance	White solid chips or granules
UN Number	1748
Molecular Formula	$\text{Ca}(\text{ClO})_2$
Molar Mass	142.98 g/mol
Density	2.35 g/cm <sup>3</sup> (20°C)
Melting Point	100 °C
Boiling Point	175 °C, decomposes
Solubility in Water	21g/100 mL

### Advantages

- A stable product that has a ± two year shelf life when stored correctly
- High active ingredient in a solid concentrate can potentially reduce storage and transportation costs
- When used at higher concentrations, it deodorizes and removes organic contaminants that can affect clarity and colour of water
- Raises the pH of the treated water
- Due to a high concentration of the active ingredient, a relatively small amount of the product can effectively disinfect large amounts of water
- ISO 9001: 2008 certified

### Regulatory

Registered with the South African Department of Agriculture, Forestry and Fisheries (DAFF).  
Registration numbers L7755 & L7765 of Act 36/1947.

www.lonza.com

www.lonzawatertreatment.co.za

## Dosage Chart

Volume of Water to be Treated				
Treatment ppm Av. Cl <sup>2</sup>	50m <sup>3</sup>	100m <sup>3</sup>	500m <sup>3</sup>	1 000m <sup>3</sup>
1	75	154	769	1, 548
2	154	308	1, 538	3, 077
3	231	462	2, 308	4, 615
4	308	615	3, 077	6, 154
5	385	769	3, 846	7, 692

Weight of HTH Scientific® product required [grams]

Note: Add the required amount of product to water.

Caution: Do not reverse this procedure since a rapid evolution of heat may occur, possibly resulting in spattering or explosion.

## Storage

Keep product tightly sealed in original containers. Store product in a cool, dry, well-ventilated area and below 35°C. Store away from combustible or flammable products. Keep product packaging clean and free of all contamination, including e.g. other pool treatment products, acids, organic materials, nitrogen containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc. Keep out of direct sunlight.

## Safety & First Aid Measures

Please consult product SDS.

## Packaging

HTH Scientific® Chips and Granular are available in 25kg polypropylene drums.

## Product Code

- HTH Scientific® Granular: SCI25
- HTH Scientific® Chips: SCI25CH



The HTH Scientific Chips & Granular products can be used for water disinfection required for commercial swimming pool applications.

**Arch Chemicals (Pty) Ltd, a Lonza company  
South Africa**

NCP Factory Site, 9 Hytor Road

ZA – 1624 Kempton Park

Tel: + 27 11 393 9000

Fax: +27 11 393 9073

The information contained herein is believed to be correct and corresponds to the latest state of scientific and technical knowledge. However, no warranty is made, either expressed or implied, regarding its accuracy or the results to be obtained from the use of such information. Some products may not be available in all markets or for every type of application. Any user must make his own determination and satisfy himself that the products supplied by Lonza and its affiliates, and the information and recommendations given by Lonza and its affiliates, (i) are suitable for intended process or purpose, (ii) are in compliance with environmental, health and safety regulations, and (iii) will not infringe any third party's intellectual property rights. HTH® and HTH Scientific® are trademarks of Lonza or its affiliates.