

# HTH Scientific® Chips & Granular

## Effective Bactericide and Fungicide for Industrial & Municipal Applications

### Chips & Granular

HTH Scientific® Chips and Granular aids in controlling bacteria and algae as well as eliminating odours. An effective bactericide and fungicide for disinfection of potable water in reservoirs and used as an oxidizing agent in sewage water, waste water, cooling water and many other water systems.

### 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

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: SCI25IG
- HTH Scientific® Chips: SCI25IC



Cooling towers, an application where HTH Scientific® Chips & Granular can be used.

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