

Calcium Hypochlorite is the excellent choice

Advantages of Calcium
Hypochlorite solution
versus salt electrolysis
and sodium hypochlorite



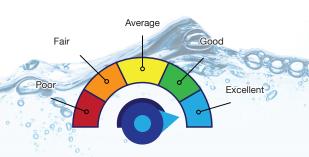


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1 - Safety and quality

a - From the operator...



Sodium Hypochlorite

- 7 times more products needed
- Typically 26 kg carbouys
- Very short shelf life



 Liquid spillages are notoriously difficult to clean up



- Sodium precipitation likely at injection points
- Accidental mixing with other liquids more likely

Calcium Hypochlorite





- The least product needed: High chlorine level already included in the product
- Easy to store with a long shelf life



- Solid chemicals are the safest to handle
- Spillages are very easy to clean up



- No injection blockages when a feeder is used
- No confusion with other chemicals



and very easy

Salt Electrolysis



- 3 times more volume to handle, 25kg only
- Manual addition of calcium required at weekly intervals



 Heavy bags difficult to lift and maneuver when refilling



- High levels of salt precipitation at the injection points
- Very quickly used up with high fluctuations of bather



A backup chemical is often required in case of breakdown

In case of failures

Monthly Delivery / storage

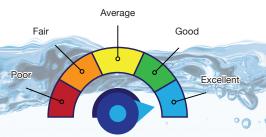
Refilling

During operation

- Manual dosing possible but complicated
- Unsafe due to the nature of liquid

Across all aspects of safety and operation, Calcium Hypochlorite is the most convenient and the safest option for operators.

b - ... to the bather and the environnement



Sodium Hypochlorite

External Risk

During swimming

In case of failures



- Danger in case of confusing liquids
- Spillages



- Lot of salt in pool water
 Lot of chlorates added into pool water
- Dosing pipe always under pressure

Calcium Hypochlorite





- Easy visualisation and free
 hth signage upon request
- Spillages easy to handle
- Less CO₂ produced per usable product than liquid or salt



- Calcium is added, good for skin; less chemicals in pool water
- Max 2% chlorine solution is produced, lower by products generated.



 Chlorine solution not under pressure when using an easiflo® feeder

Salt Electrolysis



 Hydrogen (H²) is expelled into the atmosphere (indirect greenhouse gas)



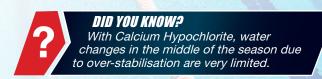
- High levels of salt in pool water
- Higher levels of chlorates created



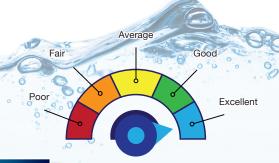
 Dosing pipe under pressure

hth[®] Calcium Hypochlorite is the best way to improve water quality, satisfy swimmers and minimise risk to everyone.

This water treatment solution limits as much as possible environmental and surroundings risks.







Sodium **Hypochlorite**

Calcium Hypochlorite





system 2k - 5k

70% active chlorine, lower

Small storage footprint

Quarterly deliveries required

Low chlorate levels in pools,

Calcium based product

due to perfect product quality

reduces corrosion and grout

Stable product - consistent

quality; Retains full strength

for over one year (assumes

correct storage conditions)

• Mildly basic (Alkali), Requires

low level of pH correction

no additional costs

transport costs

Low capital invest for feeder



Salt Electrolysis

 Captial invest 20k - 100k, large dosing pumps needed



- Huge area for storage of salt required
- · Weekly pallets deliveries of salt required



- Responsible for high chlorate levels in pools, only fresh water can help
- Higher corrosion level expected: increase maintenance for replacement of valves in plant room
- Relatively unstable liquid, due to storage tank and temperature (increase) of 10°C. Maximum chlorine produced is only 1%
- Higher alkalinity, more pH minus needed
- High running costs for water, energy and maintenance



 Replacement of generators very expensive, high maintenance costs

Investment

Delivery /

storage

During

operation



 High capital invest for new tank system 10k-20k



- 10-15% active chlorine, less ADR, lower transport
- Monthly deliveries required



- chlorate levels in pools, only fresh water can help
- Unstable Liquid, storage tank looses chlorine daily
- Higher alkalinity, requires much more pH correction



- Responsible for high
- Higher corrosion level expected
- No additional costs



 Long delivery time for dosing pumps

- Easy for operators to identify and repare the failure
- Cheap spare parts

In case of failures

From the initial investment, to the storage of materials, through regular maintenance, the easiflo® system is the ideal solution for long-term cost optimization.

