PRODUCT INFORMATION SODIUM HYPOCHLORITE

14% SODIUM HYPOCHLORITE SOLUTION

DESCRIPTION

Sodium Hypochlorite is a powerful disinfectant; it is effective against a wide spectrum of micro-organisms, including vegetative and sporing bacteria, moulds and mould spores, yeasts and viruses. Sodium Hypochlorite also removes staining, flavouring and odours.

USE INSTRUCTIONS

In use concentrations of Sodium Hypochlorite are application dependent and should be established during trials.
A 1% v/v solution of Sodium Hypochlorite delivers approximately 1800 ppm available Chlorine.
Cleaning temperatures should be optimised during trials. However, it is not advisable to use chlorinated products above 50°C.
Sodium Hypochlorite is not normally used for direct food contact.
The following are typical example applications, users should refer to Cleaning Instruction Cards for specific guidance. Other applications should be discussed with your Holchem Consultant.

Surface Disinfection. Sodium Hypochlorite is used as a disinfectant following thorough cleaning and rinsing. Recommended use concentration is 50 ppm to 500 ppm Av. Cl (0.03% to 0.3% v/v), with a contact time of 15 to 20 minutes. On food contact surfaces, the surface should be rinsed with potable water after a contact time of 15 to 20 minutes.

Drain Disinfection. Sodium Hypochlorite is used as a drain disinfectant and is very effective against Listeria. However, heavy soiling in drains will neutralise the antimicrobial activity. It is recommended that drains are flushed with water before dosing with Sodium Hypochlorite at 50 ppm – 500 ppm. It is essential to check that acid is not being released to a common or interlocking drain.

BENEFITS

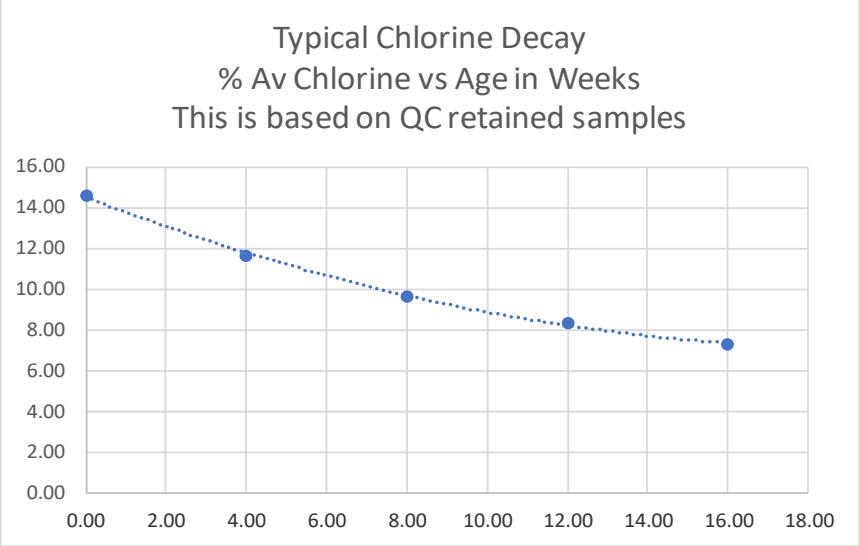
- High activity.
- Wide spectrum of activity.

TECHNICAL DATA

Appearance	Clear, pale yellow non-viscous liquid
Odour	Chlorine
Foam	No foam
Specific Gravity at 20°C	1.26
pH (1% solution at 20°C)	11.8 - 12.2
Sodium Hypochlorite	14% w/w NaOCl (decays with time)
Available Chlorine	14% w/w Av CL_2
Sodium Carbonate	1.5% w/w Max Na_2CO_3
Sodium Hydroxide	0.3-1% w/w NaOH
Iron	<2ppm Fe
Mercury	0.05 mg/L(max)
Cadmium	0.01 mg/L(max)
Storage Temperature Range	-10°C to + 30°C
Shelf Life	Maximum of 4 months under normal conditions
Holchem Classification	

PRODUCT DECAY

It is important to note that Sodium Hypochlorite solutions decay with time. Decay is a natural process and cannot be avoided. Decay will be accelerated by UV light (sunlight) and heat, it is therefore essential not to store products in direct sunlight. As product decays, Oxygen gas will be evolved (not Chlorine) and Sodium Chlorate will be formed, this may be of concern if an MRL for Chlorate residues in food is considered. The figure below gives a typical decay curve for Sodium Hypochlorite starting at a nominal 14 – 15% wt/wt concentration.



PRODUCT COMPATIBILITY

CAUTION: Contact with acid liberates Toxic Chlorine Gas.

Sodium Hypochlorite is an effective oxidising biocide against a wide range of organisms and is safe for use on most materials of construction. For soak applications care should be taken on Aluminium, Copper, Zinc or their alloys. It is always advisable to evaluate individual materials before prolonged use. On Stainless Steel, pitting corrosion may occur if the product is used regularly at high concentrations.

Note: Neat Sodium Hypochlorite will react rapidly with ferrous metals to produce a dark brown liquid, this must be considered when choosing couplings for IBC's or the materials of construction of pick up lances.

BIODEGRADABILITY

This product consists of inorganic materials for which biodegradation assessment is not required. Not expected to Bioaccumulate.

SAFE HANDLING & STORAGE

Keep in original container. Keep containers tightly closed. Store away from acids.
COSHH places a duty on employers to assess and control the risks of using hazardous substances. The Safety Data Sheet provides the relevant information about the product to assist with this assessment.

PACKS

The product is available in the following pack sizes:

- 25 Kg
- 250 Kg
- 1250 Kg

GENERAL

For accident, emergency and health & safety information refer to the Safety Data Sheet for this product.
This product is registered with the National Poisons Information Service.
Whilst every effort is made to ensure that the information given in this product information sheet is accurate it is given without guarantee, since the conditions of use are beyond our control.