



# SANOSIL

DISINFECTANTS FOR LIFE 



# Sanosil S015

Water disinfectant concentrate

[www.sanosil.com](http://www.sanosil.com)

# Sanosil S015

Disinfectant for water disinfection



Perfect for process water treatment, Legionella control, drinking water installations, water tanks and pipes, smaller irrigation systems.

- ✔ Effective water disinfection with a long-lasting effect
- ✔ Highly effective against biofilms and VBNC bacteria
- ✔ Odourless and tasteless in treated water
- ✔ Easy and safe application (no hazardous substances)
- ✔ No chlorine/chlorine compounds, QAC, bromine or isothiazolinones
- ✔ Does not develop AOX / trihalomethanes
- ✔ With catalytically enhanced hydrogen peroxide
- ✔ The hydrogen peroxide completely (100%) decomposes into water and oxygen
- ✔ Shelf life of over 2 years
- ✔ High-quality product made in Switzerland



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## PRODUCT DESCRIPTION

Sanosil S015 is a disinfectant concentrate suitable for water, pipe and tank disinfection.

Hydrogen peroxide is used as the active ingredient. It is also stabilised and its disinfecting effect is catalytically enhanced several times over by adding a minimal amount of silver ions.

**This process can increase the disinfection effect by up to 800%.** After application, hydrogen peroxide also completely decomposes into water and oxygen.

The minimal amount of silver remaining after the peroxide has broken down inhibits the multiplication of germs and has additional conservation properties, especially in water systems.

Unlike the highly concentrated Sanosil Super 25, Sanosil S015 is not a hazardous material and does not require special storage and transport regulations. The conversion factor to Sanosil Super 25 is 6.6.



Sanosil S015

## OVERVIEW

### PRODUCT TYPE

Concentrated (no hazardous material)

### SUITABILITY

#### Water disinfection

- Water treatment
- Content disinfection (tanks, pipes, drinking water systems)
- Legionella control

#### Surface disinfection

- Wiping
- Targeted spraying with device

#### Aerosol disinfection

Cold and hot fogging process

### SHELF LIFE

2.5 years

### CONTAINS

7.5g/100g hydrogen peroxide,  
0.0075g/100g silver

## WATER DISINFECTION: INCIDENTAL INFORMATION

**Note:** In the case of serious biofilm growth, disinfection with conventional products is usually useless because the biofilms (slimy deposits of bacteria, fungi and protozoa) cannot be reliably removed.

In addition, the bacteria are often in a "VBNC" state (Viable But Not Culturable). This distorts the measured results and conveys a false sense of security.

**In contrast, Sanosil can effectively eliminate both biofilms and VBNC germs.**

## HOW IT WORKS



- 1** The oxygen ( $^1\text{O}_2/\text{O}_2$ ) released by the hydrogen peroxide attacks the cell walls of the microorganisms. Oxidation (cold combustion) denatures and destroys them.
- 2** The effect is supported by silver ions, which enhance the effect of the peroxide in a catalytic process. They also inhibit the metabolism (where present) and the germs' ability to multiply.



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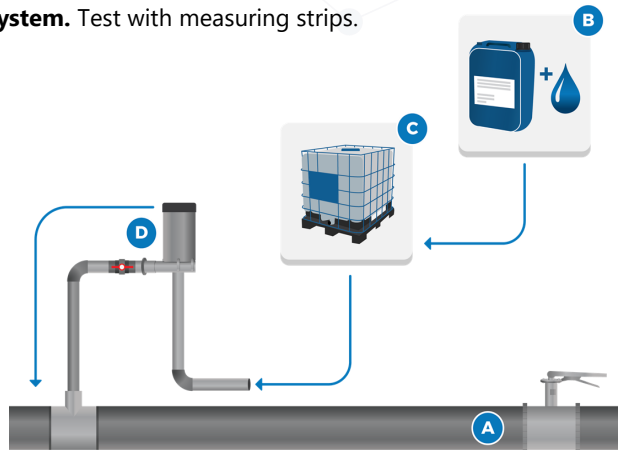
# PIPE DISINFECTION / LEGIONELLA CONTROL

In hot and cold water systems

Legionella are essentially harmless bacteria that occur in drinking and process water. They begin proliferating vigorously at warm temperatures (25-50°C). There is a risk of severe infections if aerosols containing legionella are inhaled. Regular disinfection of critical equipment eliminates this risk.

## IMPLEMENTATION

1. Mix **Sanosil S015** (B) with water in a container (C). Dosage: 6.6 ml per litre of water.
2. Pump the **disinfectant solution** into the system to be disinfected (A) using a pump (D) and fill it completely. To do this, open all the tapping points until disinfectant solution flows out. Test with measuring strips. Avoid dead water zones and air pockets. During disinfection, block all the tapping points for regular use or attach appropriate warnings.
3. Allow it to take effect for at least **4 hours** (safety margin due to possible biofilms). Occasionally open the water tapping points slightly so that fresh disinfectant solution can flow in and the concentration in the system can be uniformly maintained.
4. **Thoroughly flush the system.** Test with measuring strips.



Sanosil S015

## EFFECTIVENESS

### STANDARDS / EXPOSURE TIMES

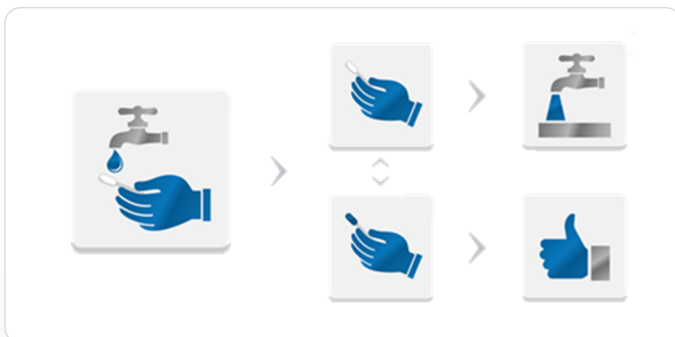
#### REGIONAL Legionella control

EN13623 :  
7 ml/l Sanosil S015 in 30 minutes

EN13623 :  
0.5 ml/l Sanosil S015 in 4 hours

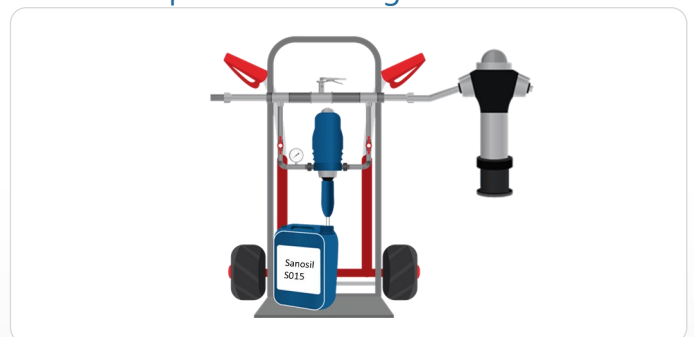
**Note :** Limit value for legionella in retirement homes and hospitals, etc.: 100 cfu/l. Other buildings, shower water and cooling water: 1000 cfu/l. Initiate the treatment process if the limit value is exceeded.

### Verification of disinfectant content



Sanopstrips 200 measuring strips, which react to Sanosil S015 by turning blue, are suitable for detecting Sanosil in water.

### Proportional dosing unit



A mobile dosing unit is recommended for regular applications



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## GENERAL WATER TREATMENT

Drinking water equipment, process water

**Note:** An increased dose of disinfectant is added sporadically to the contaminated system during a shock disinfection procedure. This is carried out for acute eradication of germs and the removal of biofilms.

**Maintenance disinfection** involves the continuous application of small doses of disinfectant. The objective here is to prevent or inhibit the formation of new germs and biofilms.

**Combining the two methods is ideal.**

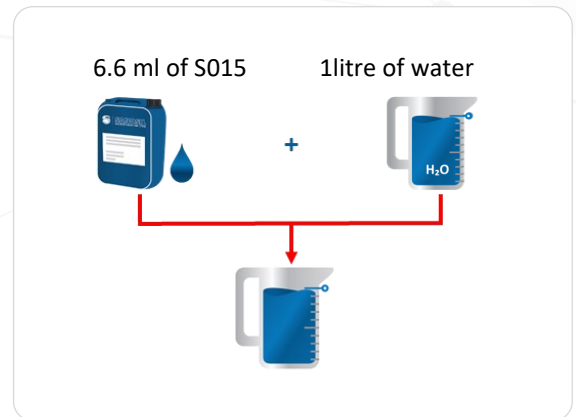


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## PIPE AND TANK DISINFECTION (SHOCK TREATMENT)

Shock treatment procedures are used for contaminated water systems, such as pipes and tanks as well as for disinfecting liquid laboratory waste.

1. Mix disinfectant solution: 6.6 ml of S015 per l of water
2. Completely fill the pipe / tank with disinfectant solution
3. Let it take effect for at least 4 hours
4. Flush out disinfectant solution

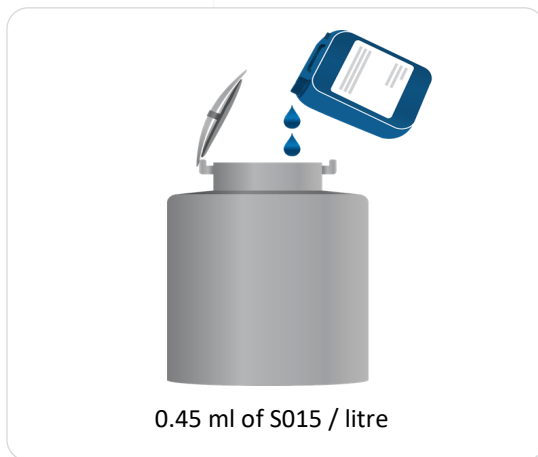


## DRINKING WATER\* CONSERVATION

Water preservation helps to give water in closed containers an extended shelf life.

1. Mix disinfectant solution: 0.45 ml/l (emergency water preservation for drinking water)
2. Fill the tank and seal it tightly
3. The shelf life is up to several weeks depending on the raw water quality

\* In order to treat drinking water with products containing hydrogen peroxide, such as Sanosil, the appropriate approvals are required. These are not available for all countries. Without the necessary approval, Sanosil products may only be used via discontinuous application (shock disinfection) / treating process water. Please contact the competent authority to ensure legally compliant use of the products.

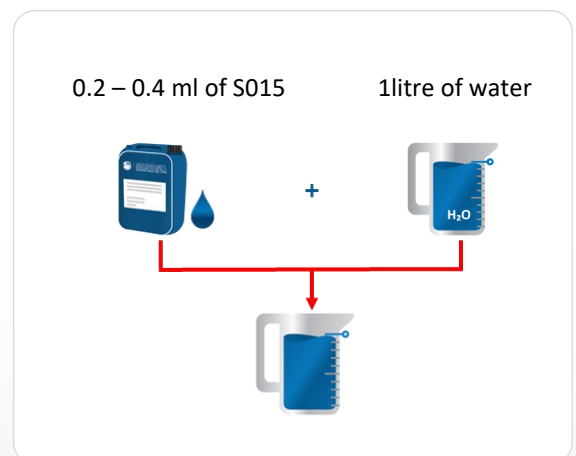


0.45 ml of S015 / litre

## PROCESS / IRRIGATION WATER DISINFECTION

The continuous process water disinfection method prevents the growth of germs in liquids / water. This is ideal for cooling water, humidifiers and irrigation systems, etc.

1. Shock disinfection of the entire system with 6.6 ml of S015 per litre of water for at least 4 hours
2. Flush the system
3. Continuously add 0.2 - 0.4ml of S015 per litre of water to the water. (This is ideally carried out using a dosing pump or a proportional dosing system)



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