

Huwa-San TR-3

Disinfection of domestic water systems



What: Huwa-San TR-3

Where: Domestic Water Systems. By 'domestic', we mean water tanks between 100L and 1000L in volume. So, places such as domestic homes, small Nursing and Care Homes, sheltered housing and small commercial properties.

When: The best time to disinfect any water, system is when you know that it won't be used for a good few hours - for example, after all the morning washing routines are done and out of the way. This allows you to apply Huwa-San TR-3 in a relatively undisturbed way. This method requires 24 hour contact time.

Why: Huwa-San TR-3 disinfects water systems and kills legionella bacteria. There are no strict rules as to how often you should disinfect your water system, but we'd recommend that you inspect the system annually, and disinfect if required. This ensures that your property remains HSG 274 Part 2 compliant. (The Control of Legionella Bacteria in hot and cold water systems)

How:

Step 1) You first of all need to know how much water you're disinfecting. You do this by finding the volume of the cold water tank, the calorifier and the pipework combined. **Tank:** the volume is normally printed on the label; if it's not then you have to multiply the length x height x width to get the volume. **Calorifier and pipework:** if you have a calorifier, multiply the tank volume by 1.3... if you don't have a calorifier, multiply the tank volume by 1.1. This gives you the volume of the entire system.

Step 2)

Water system volume	Amount of HuwaSan TR3 needed	1 litre Bottles of HuwaSan TR3 needed
100 litres	350 ml	1
200 litres	700 ml	1
300 litres	1050 ml	2
400 litres	1400 ml	2
500 litres	1750 ml	2
1000 litres	3500 ml	4

Step 3) Isolate the tank from the mains water supply, drain and thoroughly, manually clean the inside. Residue can be removed with a wet & dry vacuum cleaner. **Note:** if you can't isolate the tank from the mains water supply, you can omit step 3.

Step 4) Fill the cold water storage tank with fresh water and dose the tank with the recommended amount of Huwa-San TR-3.

Step 5) Open the hot and cold taps **furthest** from the cold water tank and let the water run for one minute.

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Step 6) Check the water from these taps with a hydrogen peroxide test strip. You're looking for hydrogen peroxide levels of more than 100ppm, so use the colour guide on the test strips to help you.

Step 7) If the test strip shows hydrogen peroxide levels of more than 100ppm, great – you can now draw the Huwa-San TR-3 through the entire system by opening up different pairs of taps, checking that each has a hydrogen peroxide level of more than 100ppm. Flush all of the WC's too. If the test strip shows hydrogen peroxide levels of less than 100ppm, you need to add more HuwaSan TR3 to the water tank and repeat. A lower hydrogen peroxide level indicates a dirtier tank and pipe work.

When adding more Huwa-San TR-3, the calculations are:

Volume of system being disinfected	75ppm peroxide - amount of HuwaSan TR3 to be added	50ppm peroxide - amount of HuwaSan TR3 to be added	25ppm peroxide - amount of HuwaSan TR3 to be added
100 litres	90	175	265
200 litres	175	350	525
300 litres	265	510	790
400 litres	350	700	1050
500 litres	440	875	1320
1000 litres	875	1750	2625

Step 8) You're done. After 24 hours of normal usage, your water system will be completely disinfected. If you need water samples for any reason, do wait until after this initial 24 hours for accurate results.

Huwa-San TR-3 Health and Safety

Put simply, independent testing has shown that Huwa-San TR-3 is safe to handle and to use.

Put technically! French laboratory, EVIC-CEBA, performed a toxicological evaluation on Huwa-San TR-3. It was tested in accordance with 67/548/EEC and concluded that it's not a skin irritant or a skin

desensitiser; it's not dangerous by ingestion and it's not an eye irritant.

In hospitals, never do an Huwa-San TR-3 disinfection if there's a dialysis unit or laboratory linked to the water system or if there's the possibility of Huwa-San TR-3 getting into the water supply to these units.

Regardless of Huwa-San TR-3's fabulous safety record, SAFESOL advocates the use of appropriate safety equipment when using any chemical. Please refer to the MSDS sheet prior to use.

Before using any chemical, you should always reference your in-house Risk Assessments and Method Statements.