



The Disinfection of a Domestic water System using SafeSol3

Risk Assessment

SafeSol3 is an easy to use water system disinfectant which has been shown by independent tests to be absolutely safe to handle and use.

Safety Aspects

In France, the laboratory EVIC-CEBA performed a toxicological evaluation on SafeSol3. The laboratory demonstrated that the formulation is not dangerous by inhalation and tested in accordance with Directive 67/548/EEC is not a skin irritant or skin sensitiser, is not dangerous by ingestion and is not an eye irritant.

Risk Assessment of Disinfection Process.

The disinfection procedure involves gaining access to the cold water storage tank, pouring the required quantity of SafeSol3 into the water into in the storage tank and then drawing the chemical through to each outlet in the premises.

The Risk Assessment is carried out under three headings:

1. Accessing the tank
2. Applying the Chemical
3. Testing the water.

1. Accessing the Tank

Most cold water storage tanks are located in attics loft spaces or in cupboards. Most are accessed through trap doors which are reached by a ladder - The normal precautions when using a ladder should be taken. Ensure that the ladder is sound and has been tested prior to use. Ensure that the ladder is secure before climbing it. Put the container of SafeSol3 securely into the space, where the tank is located before climbing in.

Please take all the normal precautions necessary before crossing the loft/attic space. Ensure that you step only on floored areas or on areas capable of taking your weight. Ensure that the loft space is properly lit either by taking in a good torch or by using previously installed lighting.

Evidence of the presence of bats, squirrels or wasp nests should be reported and the loft should not be entered until the problem has been removed.

2. Applying the Chemical

The quantity of **SafeSol3** required for disinfecting the tank and system should be applied in accordance with SafeSol Limited's instructions. The bottle should be opened and the required volume of chemical added to the water storage tank. When the chemical has been added to the cold water storage tank close the bottle, and mix the chemical into the water in the tank. You can do this using your hand.

Spillages of the **SafeSol3** on your skin or splashes in your eye will not cause soreness or irritation (See above tests). Spillages of **SafeSol3** on the floor should be absorbed using sand and the sand placed in a bucket (if a significant quantity has been spilled). Smaller spills can simply be left.

3. Testing the Chemical

SafeSol3 is detected using a simple hydrogen peroxide test strip. Go to the furthest outlets (hot and cold) from the tank and run the water for a few minutes. Start checking with the test strip after 1 minute and continue checking at say 30 second intervals until a dark blue colour register on the test strip. Take care when testing hot water as domestic hot water can run at temperatures in excess of 60⁰C and constitutes a scald risk.

When 100ppm hydrogen peroxide has been detected on the strip at the furthest outlet close these outlets and run the water through the other outlets in the building to ensure that all the taps are charged with water containing 100ppm hydrogen peroxide. The disinfection process is now complete.

Please Note While **SafeSol3** has been independently tested and shown not to be problem to skin or eyes it is always good practice to wear gloves (disposable type are suitable) and eye protection when handling any chemical.