Everyone concerned with emergency preparedness knows that clean drinking water is pretty much the number one priority for survival. There are many ways to sterilize water, with the most popular and widely used method being to boil the water. Boiling water is fine if you are only looking to sterilize small quantities of water, but what happens if you need to sterilize larger quantities of water in a long-term survival situation? You should also consider the possibility of being without power and fire, as without these you won't be able to sterilize your water.

The second most common method for sterilizing water in emergencies is to use basic household bleach, as this is usually what people have available. This is effectively a far cheaper and easier method than using those chlorine water purification tablets. The problem with bleach is it has a very short shelf-life. It is fine to use if you find yourself in an emergency scenario and you have some at home, but if you are prepping for SHTF/total collapse scenario, you want a solution that is low cost, and that will keep indefinitely. This is where calcium hypochlorite comes in.

Calcium hypochlorite is used to kill germs in swimming pools, it is often called Pool Shock, and when used correctly it is an excellent choice for sterilizing water in emergency situations. It is cheap, effective and it has an indefinite shelf life. A one pound bag of calcium hypochlorite can treat approximately 19,000 gallons of water.

Check out the post below for a tutorial on how to sterilize water with calcium hypochlorite, it also shows how to make household bleach with it as well. Please follow the instructions carefully and proceed with caution. I would also recomend doing further reseach too.
Use Calcium Hypochlorite To Disinfect Water