



# AMS

## Activated Mineral Solution

### **Activated Mineral Solution**

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

### **Function & Understanding**

Legal Advice:

The information in this booklet has been extracted from the book „MMS: Breakthrough“ by Jim Humble and acts as a basic understanding of the book. It would be advisable that you purchase the book (**ISBN-10:** 1439207356, **ISBN-13:** 978-1439207352) or download the 1. part of the book at [HYPERLINK-www.miraclemineral.org/part1.php](http://www.miraclemineral.org/part1.php) for free

Contact:

Tobias: +34 616 413 756

Nicolas: +34 669 950 504

Email: [info@activatedmineralsolution.com](mailto:info@activatedmineralsolution.com)

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## Introduction

### The function of AMS

The combination of sodium chlorite ( $\text{NaClO}_2$  as 25% solution) and 50% of citric acid as “*Activator*”, generates AMS – chlorine dioxide ( $\text{ClO}_2$ ).

To understand the AMS one must understand chlorine dioxide, as this is what is generated and what does the job in the body.

Chlorine dioxide is highly explosive. Therefore, wherever it is used, it must be generated on site. It cannot be transported as chlorine dioxide as it would instantly destroy any container that one might try to house it in.

Chlorine dioxide is a powerful chemical that has many uses. It is an oxidizer, less powerful than oxygen, but with greater quantity available for oxidizing. Chlorine dioxide explodes when it obtains certain chemical conditions, and is neutral with other chemical conditions. It is selective.

What do we mean when we say it explodes? Well, an explosion is merely a fast chemical reaction, mainly oxidation that also releases energy.

In the formula,  $\text{ClO}_2$ , there are two oxygen ions. So why do these not get released so that the body can use them? It's because they have a minus two charge. They have already done their oxidizing before they arrived in this position. They cannot oxidize further. But the chlorine combined with oxygen can. When chlorine dioxide touches a pathogen or a poison that is acidic in nature, it instantly accepts five electrons. It destroys anything that it can draw electrons from and generates heat at the same time (this action is called oxidation even when oxygen is not a part of it).

When oxygen is not capable of oxidizing it simply cannot do the job in the body that is required for oxygen. What sodium chlorite really does for us is it gives us chlorine dioxide, a chemical that is selectively to destroy almost all bad things that might exist in the body. Each tiny chlorine dioxide molecule has tremendous power to destroy those things from which it can draw electrons, but it does not have the power to draw electrons from healthy cells or aerobic bacteria.

Chlorine dioxide does not last forever. It has too much energy bundled into a small area. It begins to lose some of its energy so that it no longer is explosive (unable to oxidize) it can then combine with other substances.

There is some evidence that it helps make myeloperoxidase, a chemical that the body uses to make hypochlorous acid that is then used by the immune system to further kill pathogens, killer cells and other things. Chlorine dioxide is the only chemical known that has these qualities and that can do these things in the body without creating any negative side effects.

**For over 100 years chlorine dioxide is used in the industry for the sterilization of water, the equipment in hospitals and the disinfection of chicken- and beef as well as other**

## The importance of the *Activator* – 50% citric acid

The *Activator*, which is 50% citric acid, is extremely important. When this is added to sodium chlorite it causes the solution to release chlorine dioxide on a continuous basis for about 12 hours.

For example, the addition of six drops of a solution that is 25% sodium chlorite (like the mineral supplement) to six drops of 50% citric acid will release approximately three milligrams of chlorine dioxide in 30 seconds. However, when you add water or apple juice up to the 1/2 glass mark the process slows down to one milligram per hour. Three milligrams is an adequate amount for the body.

The citric acid has a unique quality that works to create a continuous supply of chlorine dioxide for about 12 hours. In addition to this, it also prevents the solution from releasing chlorine dioxide too quickly when the stomach acids mix with it.

As the chlorine dioxide deteriorates new chlorine dioxide is continuously being generated in the body. All this, just by adding 50% citric acid to the sodium chlorite!

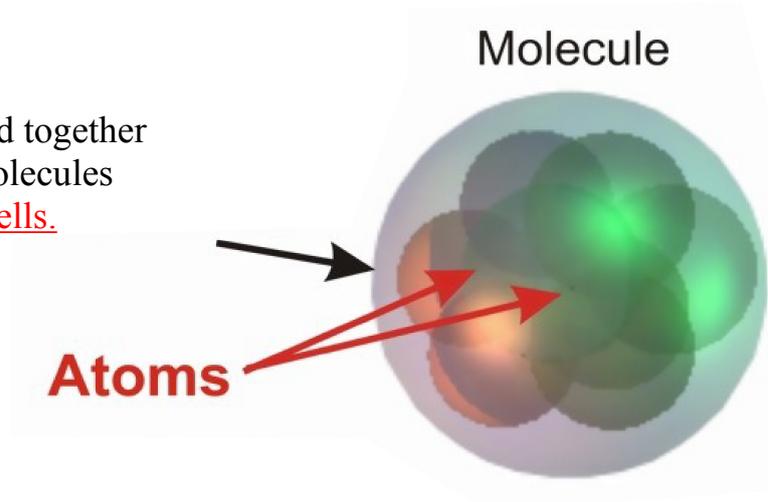
# Understanding AMS

## 1. AMS kills by Oxidation

## 2. Understanding oxidation

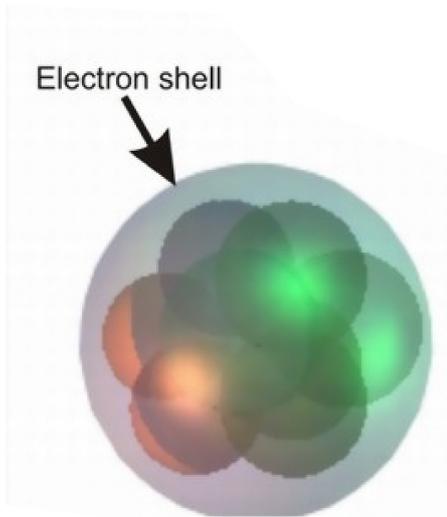
- (1) All matter is constructed of Atoms.
- (2) Atoms are combined in various ways to create molecules.
- (3) Everything you see is constructed of molecules including various diseases causing **pathogens**.
- (4) To destroy a pathogen we must destroy some of **its molecules**

Atoms are held together to make up molecules by **electron shells**.



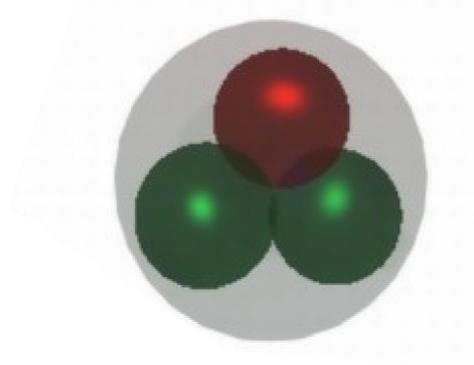
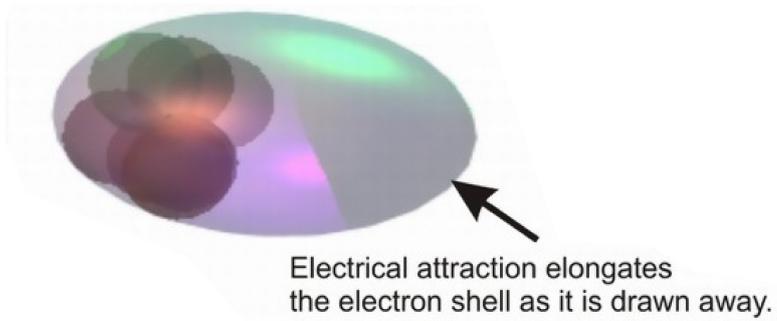
All of the balls inside of this molecule are shown in represent **atoms**.

# Oxidation

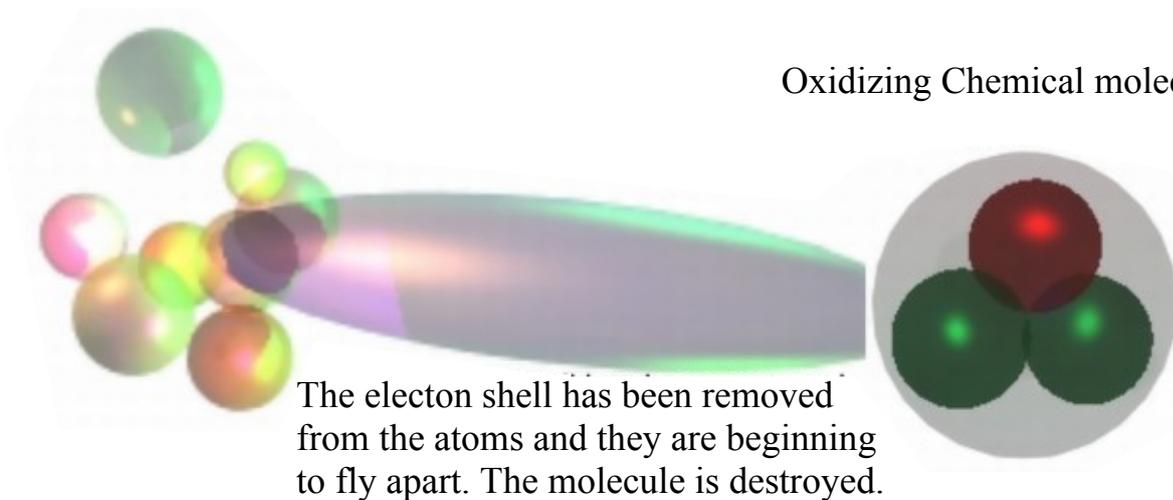


We can destroy this molecule by removing the electron shell. This is accomplished in nature or chemistry by drawing the electron shell off of the molecule. This is done with one of a series of chemicals known as oxidizers. Oxidizers destroy other compounds and in the process are themselves changed. The electrical charge of attraction of the oxidizer molecule is what draws the electron shells away.

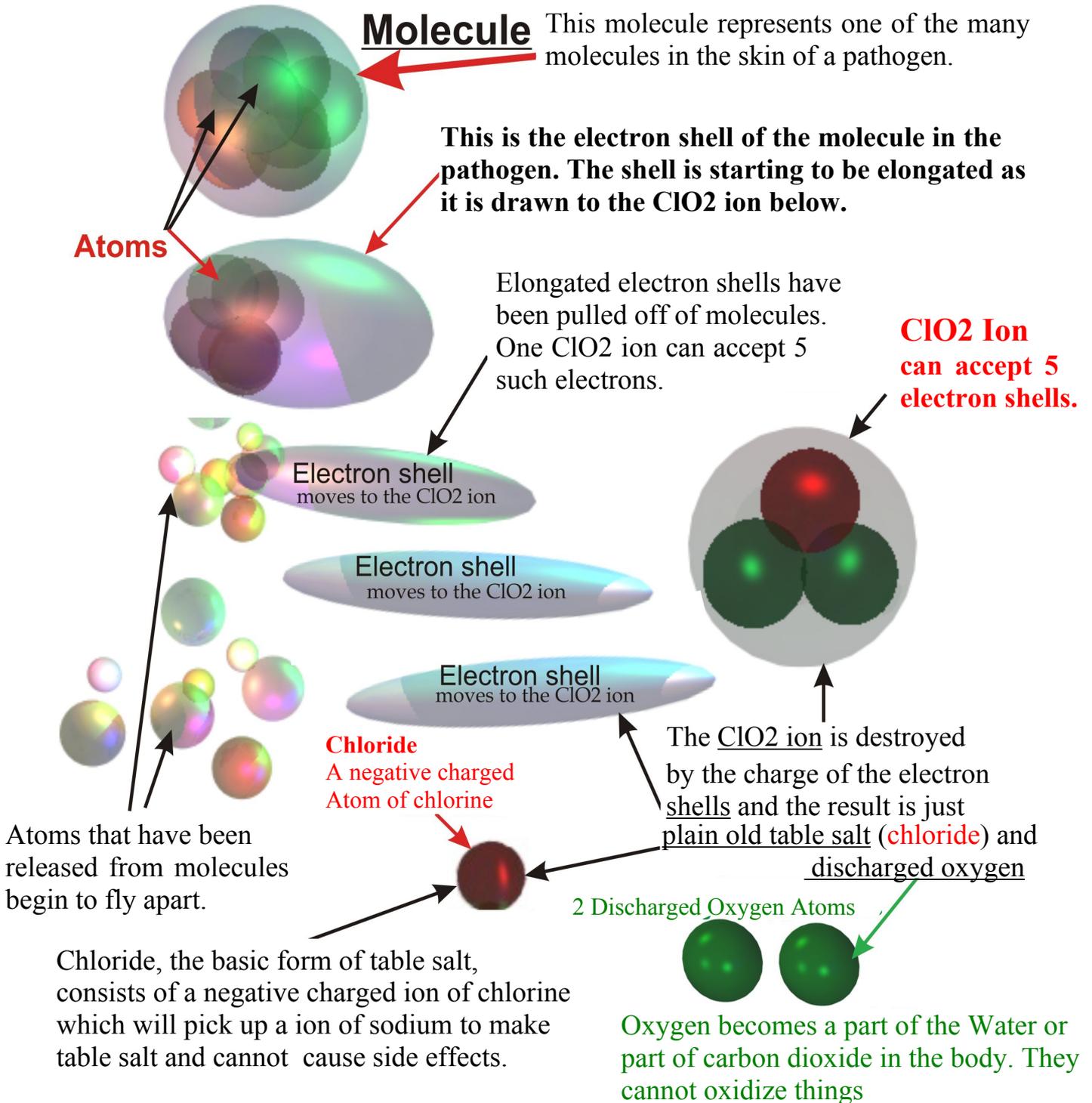
Oxidizing Chemical molecule



Oxidizing Chemical molecule



# Oxidation with Chlorine Dioxide ( ClO<sub>2</sub> )



# Wait: That's not the whole story ! Why is it that AMS destroys only pathogens and not body cells?

Its because of electrical charge. Scientifically stated, ORP, or Oxidation Redction Potential. But lets not get too technical. Lets just worry about the Oxidation potential. Or even more simply stated, Oxidation strength.

Different oxidizing chemicals have different **oxidizing strenght**. For example **ozone** has the **oxidation strength of 2.07 volts**. Now that might not sound like much, but **ozone** is the strongest oxidizer known. **Ozone** can oxidize anything in the world that is oxidizable, including your body. You can see why **ozone** can not only kill pathogens, but it can do damage to your body as well. The **Ozone** representation shows 3 oxgen atoms slammed together using high energy. Ozone is short lived, but while it is active it is a powerful oxidzer. In the body it gets used up fast because it oxidizes everything in sight. That's why it cannot penetrate really deep into the tissues. It gets used up destroying tissues as well as pathogens that happen to be there. There are, however, some valuable uses in the body.

Everyone knows that **oxygen** is in the air we breath. All **oxygen** is found as **oxygen** molecules as shwon on the right. We do not breath single **oxygen** atoms. Oxygen oxidizes hundreds of poisons that our bodies generate each day ( Remember oxidation destroys compounds). If one does not get enough oxygen, the resulting poisons first destroy the brain. The **oxidation strength of 1.30 volts** is pretty much ideal. This strength cannot destroy tissues of the body except under exceptional conditions. But this oxidation strength can destroy all of the poisons generated by healthy body, and many of the poisons generated by a sick body. We breath in oxygen and we breath out carbon dioxide. But carbon dioxide has the used up oxygen attached as **dioxide**. So you actually breath out nearly as much oxygen as you breath in. The reason why it is not totally as much is because oxygen alsocombines with some things in the body as well as tearing the poisons apart.

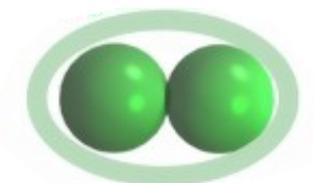
Chlorine dioxide (ClO<sub>2</sub>), **oxidation strenght .95 volts**. Now we are beginning to see why ClO<sub>2</sub> can kill pathogens and not harm the body. Tissues can with stand higher than 1.30 volts oxidation potential of oxygen. There is no reason why they cannot stand the 0.95 oxidation potential of ClO<sub>2</sub> . If oxygen doesn't do damage to the body, then ClO<sub>2</sub> positively wont do damage. Its **oxidation strength** is way below oxygen. Pathogens are anaerobic microorganisms (they don't use oxygen), and basically they are the only non oxygen using organisms in the body. Since they don't use oxygen, they havent developed a resistance to oxidation. ClO<sub>2</sub> kills viruses in a different way. It prevents the formation of the special virus proteins (that are not used elsewhere), thus resulting in the destruction of the virus.

## Ozone Molecule



There are 3 oxygen atoms in the shell  
**Oxidation strength** is 2.07 volts

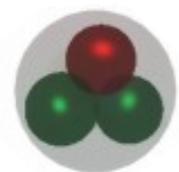
## Oxygen Molecule



There are 2 oxygen Atoms in the shell.  
**Oxidation strength** is approximately 1.30 volts

## Chlorine Dioxide Molecule

(ClO<sub>2</sub>)



There are 2 oxygen Atoms and one chlorine atom in the shell-  
**Oxidation strength** is .95 volts.

So lets take a look at what makes the chlorine dioxide molecule so valuable for killing disease in the human body. These are the important specifications.

### Chlorine dioxide

**1. Chlorine dioxide has an oxidazion potential**

Of 0.95 volts. Much lower than other oxidizers Used in the body and thus cannot attack body cells.

It is selective for pathogens.

**2. Chlorine dioxide has been used for sterilization**

of hospital floors, slaughter houses, ad thousands of other application for 100 years and no pathogen has ever developed a resistance.

**3. Chlorine dioxide is the most effective killer**

of pathogens known to man.

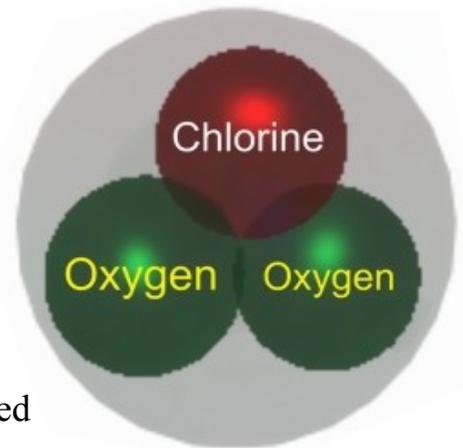
**4. While chlorine dioxide is one of the weakest oxidizers it has the highest capacity** of all the oxidizers for things it can oxidize. One molecule can accept 5 electrons which is 2.5 times more than ozone.

**5. Chlorine dioxide exists in the human body for only a few hours and then**

Deteriorates into plain old table salt and neutral molecules of Oxygen. There is nothing left in the body to build up or cause side effects.

**6. Chlorine dioxide is extremely fast acting, and although some diseases take**

longer than other, malaria, the worst disease of mankind is totally handled in 4 hours.

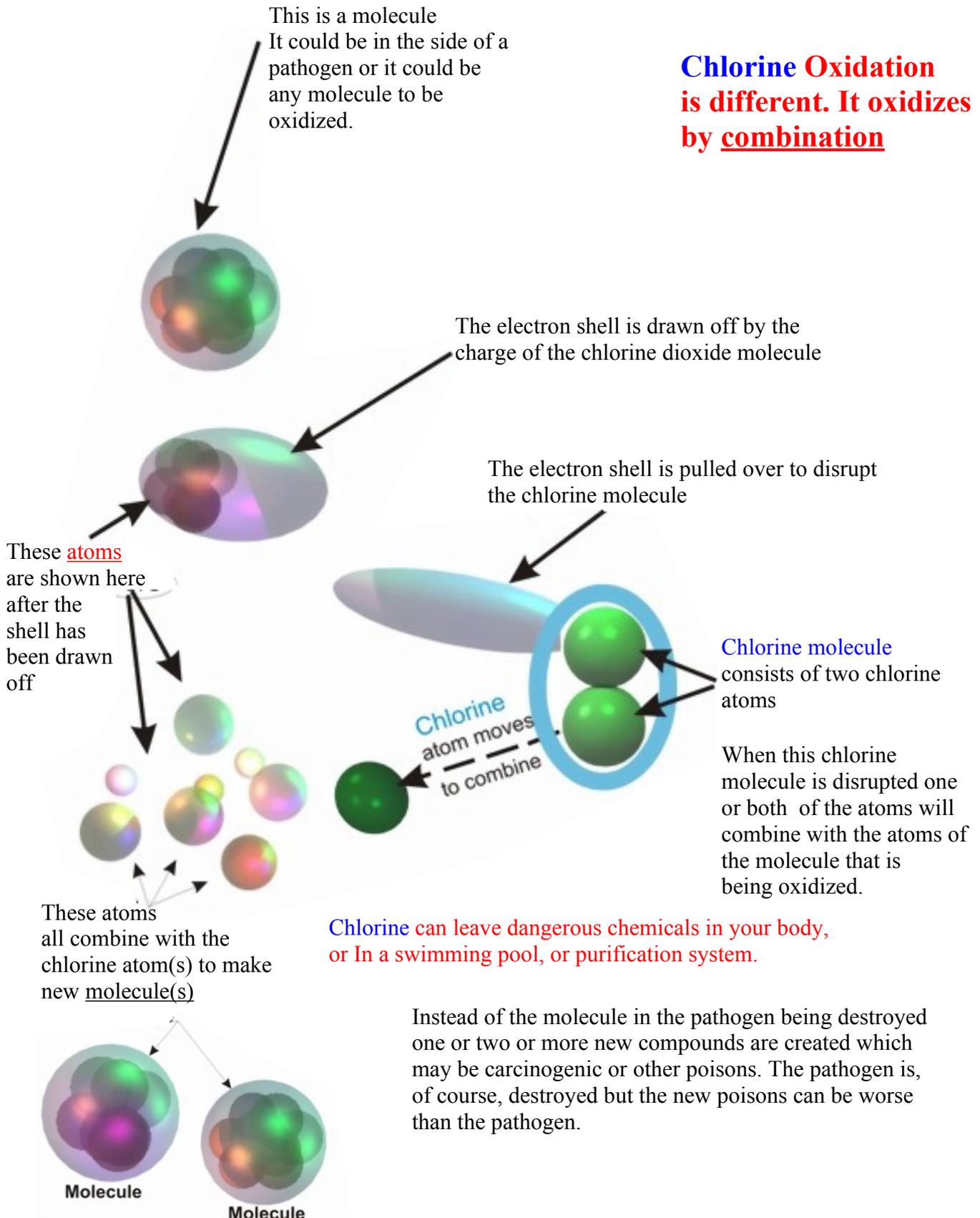


Oxidation Potential  
0.95 Volts

# Chlorine

So why not use chlorine instead of chlorine dioxide?  
Because this is what happens with chlorine:

**Chlorine Oxidation is different. It oxidizes by combination**



**Chlorine can leave dangerous chemicals in your body, or In a swimming pool, or purification system.**

Instead of the molecule in the pathogen being destroyed one or two or more new compounds are created which may be carcinogenic or other poisons. The pathogen is, of course, destroyed but the new poisons can be worse than the pathogen.