Volatile organic compounds (VOCs) are organic chemicals and/or a mixture of organic chemicals that are easily vaporized or remain in the air. There are two different kinds of volatile organic compounds in the indoor environment: natural and artificial volatile organic compounds.

The indoor air quality problems commonly found inside a sick building are caused by artificial VOCs. These artificial VOCs include chemicals generated by photocopy machines, chemicals released from carpets, paints, vanishes, sealants, plastics, cosmetics, paint strippers, etc. In addition, tobacco smoke and propellants from the aerosol based products (e.g. fragrant, odor masking chemicals, etc.) can also contribute high levels of artificial VOCs. Most of the common artificial VOCs inside a house cause minor health issue to human (e.g., allergy and asthma). 0 suspected carcinogens (e.g., benzene, toluene and xylene) that may lead to leukemia through prolonged exposure. The United State Environmental Protection Agency (EPA) has found the VOCs concentration in indoor air is 2 to 5 times greater than outdoor air. The VOCs level may increase greatly during certain activities, for examples, painting, new carpet installation, floor refinishing (urethane), and other home improvement activities.

Chlorine dioxide is known to be powerful biocide and oxidizer, and yet it is environmental friendly since it decomposes into salt and water after use. When chlorine dioxide comes in contact with harmful VOCs, it transforms the harmful VOCs into non-harmful VOCs by chemically changing the chemical structures of the harmful VOCs.

In the future, when a room smell that good, it is too good to be true! Because these fragrances used are chemically just as bad just the odors that you want to cover up.