

Introduction

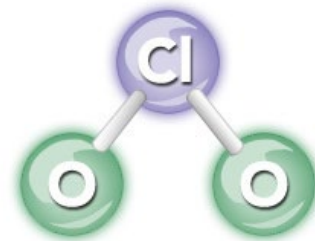
- Selective Micro Technologies (SMT) manufactures and distributes ultra-high purity chlorine dioxide (ClO_2)
- ClO_2 is a highly effective biocide at very low concentrations with low toxicity
- SMT products are widely used in acute care settings, for hard surface disinfection, pharmaceutical manufacturing, food processing and other industries where effectiveness and purity matter.
- SMT products are registered with the EPA, Health Canada the FDA and is certified by the Organic Materials Review Institute (OMRI) and NSF



Chlorine Dioxide

Selectroicide[®] is a chemical oxidant, and exists as a yellow/green gas which is highly soluble in water. It is similar to Chlorine in name only. Chemically, chlorine has two electron receivers; chlorine dioxide has five, providing Selectroicide[®] with up to 2 ½ times more capacity for killing microorganisms than chlorine.

Selectroicide[®] works through oxidation. For this reason, microbes cannot develop resistant strains. Chlorine dioxide is highly effective anti-microbial against bacteria, viruses, fungi, sporeformers and even biofilm.



The Chlorine Dioxide Molecule

Selectroocide® Kills Coronavirus

Ultra Pure ClO₂ from Selective Micro Technologies

- 200 times **more powerful** than bleach, peroxide or ammonia
 - **Yet won't burn skin or damage materials**
- Kills 99.9999% of coronavirus, bacteria viruses and spore-formers
- EPA registered as a broad spectrum, hospital grade disinfectant
- EPA registered and tested against corona virus
- Leaves no residue to irritate skin, eyes and nose
 - Safe to use around people
- Works in minutes



New disinfectant for sustainability

- SMT products ships dry
 - Save money by not shipping liquid
- So easy to use
 - Just add water
 - Spray, mist or fog applications
- Long shelf life
 - Can store for up to 2 years before activation



Comparison to “stabilized” ClO₂

- Production of “stabilized” chlorine dioxide involves mixing an acid and a chlorite solution.
- They produce very little ClO₂ in relation to other byproducts and residual reactants. This point is often lost because most people measure ClO₂ using a method which permits the aggregation of all oxy-chloro species.
- The resulting solution is often highly acidic, which can cause compatibility problems with many common materials and contributes to handling difficulties.



Comparison to other disinfectants

Ultra-pure chlorine dioxide from Selective Micro has many advantages over other disinfectants:

- Very low toxicity profile
- Extremely effective against all microbial threats
- Non-corrosive, compatibility with the widest range of materials
- Highly effective at very low concentrations
- Safe – approved for use directly on food
- EPA registered
- FDA registered
- Organic registered – Organic Materials Review Institute (OMRI)



How is it applied?

**Ultra-pure chlorine dioxide from Selective Micro is easy to use –
Just Add Water!**

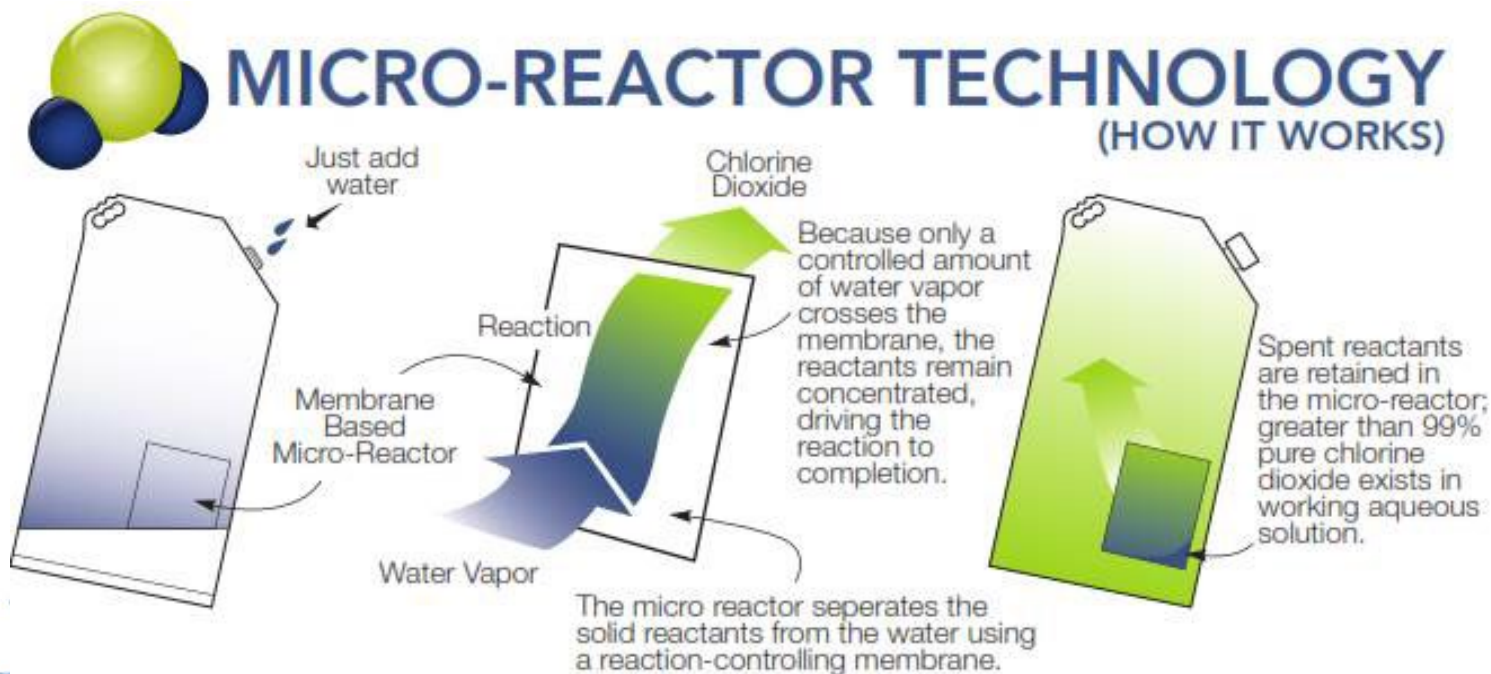
Almost all uses for Selective Micro products involve spraying or washing the target product or surface.

Gas-phase applications are in the works which will greatly expand the applications for pure chlorine dioxide.



How is it generated?

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Use Applications for EPA products

SMT's EPA-approved products may be used in the following applications:

- As a disinfectant on hard, non-porous surfaces at 100 ppm
- As a sanitizer on hard, non-porous surfaces at 20 ppm
- As a food contact surface sanitizer on food contact surfaces at 5 ppm
- Selectocide is nonreactive with electronics and interactional computer equipment.
- Selectocide can be used to clean/disinfect bathrooms, shower rooms, locker rooms, spas, and laundry rooms
- Selectocide can be used in kitchens and on food contact surfaces, including foods

To see all approved applications, please refer to products' technical bulletins.



Use Applications for FDA products

SMT's FDA registered products may be used in the following applications:

- Food Contact Notification (FCN 645)
 - Poultry processing
 - Non RAC fruits and vegetables
- FCN 1578
 - Red meat including organs and parts
 - Seafood
- FCN 1764
 - Fumigation of fruits and vegetables including RAC's
- FCN 1804
 - Fruits and vegetables considered RAC

