



• **Microcide®, Inc. was incorporated in 1990** a Michigan based technology company, is dedicated to research, development and commercialization of non-toxic and environmentally friendly antimicrobial products for households, personal care, health care and food industries. Using simple GRAS and food additive ingredients Microcide has developed a platform of new technology with potential to develop germ killing sanitizing and disinfecting products for food processing, healthcare, and personal care industries. The activation of food additive surface active agents into fast acting broad spectrum microbicidal agents presented an opportunity to develop nontoxic products to replace either toxic, environmentally hazardous and/or chemicals with accident potential.. A SBIR grant from the National Institute of Health Infectious Diseases Branch provided initial funding for this research.



• **NASA and the US Navy have selected PRO-SAN products** for sanitizing fruits and vegetables for the space missions and for use in the submarine fleet. The Navy's need for a non-toxic fruit and vegetable wash and food preparation area sanitizer due to the enclosed environment on a submarine lead to them contacting Microcide. Also Microcide has been an Affiliate Partner of the NASA Food Technology Commercial Space Center at the Iowa State University; Ames, Iowa, Microcide was nominated for the Presidential award for Green Chemistry by the EPA in 2005. Nasa is planning on taking Microcide Pro-San wipes on the Mars mission.

• **Leading providers of safe and non-toxic antimicrobial products.** Years of research have led to the invention of products that are safe and non-toxic yet kill bacteria on contact. Our products are safe because they are made only from ingredients approved by the FDA and USDA as food grade.

• **Powder forms of our products cut down on packaging waste, and make it easier to carry along while travelling.**

• **Years of research with various Universities** (the Ohio State Univ., the Iowa State Univ., the Univ. of Michigan, the Florida A&M, the Colorado State Univ. and the Oregon Health Sciences Univ.) have expanded the horizon of safe and non-toxic Microcide products,

• **Microcide has uncovered hidden germ-killing properties of food additive ingredients.** These are safe, non-toxic and biodegradable chemical agents most classified as GRAS, (Generally Regarded As Safe) and/or are considered safe as FOOD ADDITIVE by the FDA. The microbicidal products made with these ingredients can eliminate direct and indirect harmful effects caused by antimicrobial agents containing chlorine, chlorinated products, phenols, cresol, heavy metals, certain quaternary ammonium compounds, and other toxic chemical agents on health and environment. Major role of these patented products is to control both drug sensitive and resistant infectious and spoilage microorganisms.



• **Good health, wholesome food and clean and safe environment at an affordable cost.**



• **PRO-SAN® L (liquid)** our **organic fruit and vegetable wash product kills 99.999% bacteria on contact.** the products are certified for biobased content by the USDA and registered as sanitizers with the EPA. It does not leave residue on fruits and vegetables. They form colorless, odorless and biodegradable solution free of alcohol and animal products. These products are non-toxic and safe. They increase the shelf-life of produce as well as keep the vitamins, nutrients and antioxidants in pristine condition.

• **PRO-SAN® (powder)** is approved by the EPA as a **no rinse food contact surface sanitizer.** It kills gram positive, gram negative and even antibiotic resistant bacteria. The no rinse sanitizer kills germs on any surface that comes in contact with food like cutting boards, counters, dishes, cutlery, tables etc. Institutional use is in dairies, meat processing plants, restaurants, grocery stores (rinsing, misting), daycare centers, nursing homes etc. PRO-SAN® powder makes it very convenient to carry on while traveling domestically or overseas. Just mix with tap water and your fruit and vegetable wash / food contact surface sanitizer is ready.



- **SILKY SOFT® Sanitizing Soap** .has been approved by the USDA as Sanitizing Soap
- **Lab tested to kill H1N1 influenza virus, MRSA (Methicillin resistant Staphylococcus aureus) and VRE (Vancomycin Resistant Enterococcus)**. leaves skin feeling silky soft. It contains ingredients lethal for Mycobacterium tuberculosis and Protozoan cysts (Giardia).SILKY SOFT® Sanitizing Soap has the **highest USDA rating of E2**. Rapidly kills germs so becomes effective even during brief contact in hand washings. SILKY SOFT® Sanitizing Soap does not contain alcohol, triclosan or quaternary ammonium compounds. Contains skin healing Aloe vera extract and skin rejuvenating alpha hydroxy acid.



**PRO-SAN® product line** includes our concentrated PRO-SAN® LC which is a 1 oz per 1 gallon concentrate, PRO-SAN® 810 a 1 oz. per 8 gallons super concentrate. Also our Phosphate Free Safe-San® which is a 1 oz. to 4 gallons concentrate. PRO-SAN® Final Rinse is

**Dentoral & Spring Kiss Jr** are our non-alcohol antibacterial mouthwashes. Dentoral comes in Mint or clove flavors and is available in 16 oz liquid or powdered concentrate for 16 oz. making it easy to take when you travel. Spring Kiss Jr our children’s mouthwash is bubble gum flavored and very popular with children. Our mouth washes do not contain fluoride either.

## Success Stories

Backyard Farms a hydroponic tomato grower, based in Maine. ships tomatoes across a major part of the US and exports as well. When Backyard Farms discovered disease causing pathogens that forced them to destroy a major crop they turned to Microcide to improve their cleaning and hygiene process which has enabled them to receive many Quality and Safety awards and become USDA GAP certified.

Starbucks is utilizing Pro-San powder concentrate in their coffee bean processing and has been a loyal customer for over 3 years.

A major blueberry grower utilizes both Pro-San® LC and Pro-San® Final Rinse and supplies to over 30% of the blueberry market worldwide.

We look forward to your help in developing our marketing strategy.

Thank you,

John A. Lopes Ph.D.

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