



tersanoTM

terra [earth/land], **sano** [healthy]

SIMPLE · SAFE · SUSTAINABLE



WHO WE ARE

Tersano Inc. is a Canadian privately held innovations company based in Windsor, Ontario, with offices and distribution centers worldwide. Tersano is committed to advancing environmentally safe and healthy **cleaning, sanitizing and deodorizing** technologies.

WHAT WE DO

Tersano develops and manufactures devices that produce **Stabilized Aqueous Ozone (SAO™)**. This patent protected technology is offered to commercial customers globally. SAO™ is an approved cleaner, sanitizer, and deodorizer by multiple regulatory and government agencies.

WHERE WE SERVE

Tersano serves varied clients in several industries including healthcare, education, manufacturing, hospitality, airports, and office facilities world-wide.

Clients include large facility support services, QSRs and building service contractors.





The Tersano system creates SAO™ on-site and on-demand. It is compact and fits easily into all janitor's closets.

The system provides an effective, innovative and sustainable cleaning, sanitizing, and deodorizing solution.

Tersano's clients continue to contribute to the health of people and planet through the elimination of harsh chemicals.

Tersano eliminates the need to purchase, transport, distribute, store, and restock multiple cleaning products.

SAO technology is patent-protected and revolutionary. It creates an all-in-one solution, approved for sanitizing up to 24 hours and cleaning for 6 days.



Let's see how it works ...



SAO-24 Cartridge
& Desiccant Filter



SAO™ Dispenser



iClean™ mini



PROscrub
RTD & RTU

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Let's see how it works

Video available on [YouTube](#) or [tersano.com](#)



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HOW SAO **WORKS**

This patent-protected technology creates Stabilized Aqueous Ozone (SAO), an effective, innovative and sustainable cleaning, deodorizing, and sanitizing solution. SAO attacks organic matter, breaking it down into smaller particles and suspending it in solution.

HOW SAO **CLEANS**

Stabilized Aqueous Ozone (SAO) attacks organic matter, primarily carbon-carbon double bonds of organic molecules, breaking it down into smaller particles and suspending it in solution.

- Molecules vary in their reactivity to ozone, depending on the chemical bonds present and other factors.
- SAO reacts mainly with the unprotonated amino group of the acids. The site of attack on cysteine and methionine by O_3 is at the sulfhydryl rather than the amino group. Reactions of O_3 with aliphatic amino acids form nitrate, ammonia, and one or two carbon atom-containing carbonyl and carboxylic by-products. In the ozonolysis of peptides and proteins, oxidation by SAO occurs at the tyrosine, tryptophan, histidine, cysteine, and methionine residues. Oxidation of proteins results in changes in their folding ability and tertiary structures.
- With proteins, SAO causes the oxidation or the ozonolysis of certain amino acid residues, for instance, tryptophan, tyrosine and cysteine.
- Spectrophotometric studies have shown that the amino acids Met, Trp, Tyr, Cys, His, and Phe are most susceptible to oxidation by SAO in aqueous solutions.

HOW SAO **KILLS**

When applied to surfaces, SAO (ozone in a stabilized, aqueous form), kills the germs that can also cause odours. When ozone (O_3) molecules make contact with the cell wall of bacteria & viruses, tiny holes are created. This reaction is called oxidation.

Oxidation is germ killing - and it's what makes SAO so powerful!

Cleaner • Deodorizer • Sanitizer



Step 1

Oxygen (O_2) from the air is safely turned into O_3 , then inversed into ordinary cold tap water.



Step 2

SAO is attracted to germs, soils, and bacteria and quickly eliminates contaminants.



Step 3

SAO cleans for days and safely reverts back to water and O_2 .



EFFICIENCY

Eliminates the need to purchase, transport, distribute, store and restock inventory of multiple cleaning and sanitizing products.



BEFORE



AFTER



HEALTH & SAFETY



- Improved Health & Safety - non-toxic solution reduces exposure to harsh chemicals for cleaning staff, clients & visitors.
- Does not leave fumes or residues drastically reducing slip and falls, as slip co-efficient testing exceed industry standards.
- Safe for human contact, yet exceeds Green Seal Standards (GS-37 and GS-53) as industrial cleaner.
- Protects people with allergies or sensitivities as SDS is 0-0-0-A.
- Simplified and standardized safety training.



COST SAVINGS

Global clients report cost savings in:

- Labour
- Water
- Natural Resources
- Time
- Equipment
- Productivity
- Expenditures



SUSTAINABILITY

BENEFIT OF SWITCHING FROM CHEMICALS TO SAO

By using on-site generation, your carbon footprint is dramatically reduced. Less packaging and emissions translates to less in our landfills and to the planet.



SAO is currently eliminating over **543,735,000 LITRES*** or **2,611,629 BARRELS OF CHEMICALS** from going down the drain or into a landfill each year

**as of March 2020*

SAO reverts back to water and oxygen, and can be disposed down the drain without negatively impacting our waterways.



All cartridges are delivered with a pre-paid return label for **Tersano's Recycling Program.**





TERSANO SAO™ IS AN **ALL-IN-ONE** CLEANING SOLUTION

By investing in the culture of sustainability and innovation, companies are positioning themselves as a leaders in facility management services for future generations.

APPLICATIONS

- ✓ Floor & Carpet
- ✓ Stone, Marble, Ceramic
- ✓ Hardwood, Vinyl
- ✓ Walls
- ✓ Floor & Carpet
- ✓ Stone, Marble, Ceramic
- ✓ Sinks and Faucets
- ✓ Hardwood, Vinyl
- ✓ Walls
- ✓ Seatings and Tables
- ✓ External Terraces
- ✓ TV, Computer Screens
- ✓ Hand Rails
- ✓ Glass and Mirrors

**Note: SAO is an approved 5-log reduction sanitizer.
A hospital-grade disinfectant may be required in select situations.*

BEFORE

- Restroom Cleaner
- Waterless Urinal & Toilet Cleaner
- Carpet Cleaner
- Glass & Multi-Surface Cleaner
- Stainless Cleaner
- Floorcare



MULTIPLE CHEMICALS

AFTER



ALL-IN-ONE SAO™

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Thank You!

Tersano provides a non-toxic and safe solution to clients globally:

