

MASTER LABEL

VITAL OXIDE®

Residential, Commercial & Hospital
DISINFECTANT
KILLS HARMFUL BACTERIA
99.999% SANITIZATION OF FOOD CONTACT SURFACES
99.9% Carpet Sanitization



No rinse required for food-contact surfaces (D-2)
100% biodegradable surfactant

Kills Harmful Bacteria
MOLD & MILDEW REMOVER
PREVENTS MOLD & MILDEW
ON HARD SURFACES & FABRIC

HEAVY DUTY ODOR ELIMINATOR

VITAL OXIDE KILLS:

MRSA (Methicillin-resistant Staphylococcus aureus), Pseudomonas aeruginosa, Escherichia coli, Salmonella enterica, Staphylococcus aureus, Legionella pneumophila, Aspergillus niger, Norovirus (Feline Calicivirus as surrogate), Human Immunodeficiency Virus Type 1 (HIV-1), Enterobacter aerogenes, Listeria monocytogenes, Acinetobacter baumannii, Rotavirus, Respiratory Syncytial Virus, Influenza A (H1N1) (formerly called Swine Flu), Hepatitis B, Hepatitis C, Klebsiella pneumoniae (NDM-1)

ACTIVE INGREDIENTS:

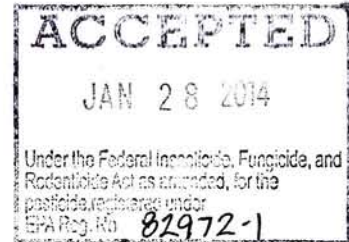
Chlorine Dioxide 0.200%
Alkyl (60% C₁₄, 30% C₁₆, 5% C₁₂, 5% C₁₈)
dimethyl benzyl ammonium chloride 0.125%
Alkyl (68% C₁₂, 32% C₁₄)

dimethyl ethylbenzyl ammonium chloride 0.125%
OTHER INGREDIENTS **99.550%**
Total 100.000%

KEEP OUT OF REACH OF CHILDREN
CAUTION

See side panel for additional precautionary statements.

NET CONTENTS:



[Optional text]

MASTER LABEL

VITAL OXIDE SIDE PANEL 1

Disinfects As It Cleans • Eliminates Odors • Fragrance Free

VITAL OXIDE provides hospital disinfection, sanitization of food contact surfaces, mold & mildew prevention, broad spectrum cleaner & odor elimination.

AREAS OF USE INCLUDE: homes, vehicles, schools & daycare, gyms & locker rooms, sports gear, hospitals, nursing homes, laundry rooms, veterinary, pharmacies, ambulances, barber shops, laboratories, restaurants, boats, ships, federally inspected meat & poultry processing plants, farms, animal pens and poultry houses, egg processing premises, hatcheries, swine premise sanitation, refrigerated storage units (empty & disconnected), airplanes, trains, trucks, buses & automobiles. Use as a mold & mildewstat on hard non-porous surfaces such as tile, and porous surfaces such as fabric.

DIRECTIONS FOR USE: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Test fabric for color fastness. Contains a dilute oxidizing agent. Do not mix with vinegar or acidic cleaners.

Pre-cleaning Instructions: Remove gross filth and heavy soil by cleaning. Spray **VITAL OXIDE** straight onto soils, scrub and wipe clean with a dry paper towel or cloth. For cleaning floors add one cup **VITAL OXIDE** per gallon of water in bucket and clean with sponge, mop, or pad.

To Disinfect Hard Non-porous Surfaces: For disinfecting pre-cleaned hard non-porous surfaces such as glass, plastic, painted wood, laminate, chrome, stainless steel, polyurethane coated hardwood floors, glazed ceramic tile, sealed concrete & linoleum floors. Types of items includes appliances, bed frames, cabinet handles, wheelchairs, child car seats, counters, cribs, doorknobs, tables, tubs, exterior toilet surfaces, faucet handles, handrails, jungle gyms, keyboards, light switch covers, patio furniture, showers, sinks, stopwops, telephone, toys, walls, waste containers. Apply **VITAL OXIDE** full strength to pre-cleaned hard non-porous surfaces, wetting thoroughly with spray, sponge, mop, or by immersion in solution. Allow surfaces to remain wet for 5 minutes for virus inactivation – 10 minutes for bacteria disinfection. For immersion replace solution daily, or more frequently if it becomes significantly soiled or diluted. **Fogging and Misting:** **VITAL OXIDE** can be applied by fogging or misting to disinfect hard, nonporous surfaces as an adjunct to regular manual cleaning and disinfecting procedures. **VITAL OXIDE** is recommended for use as a supplemental measure either before or after regular cleaning and disinfecting procedures. Apply by fogging or misting until surface is moist using equipment manufacturer's directions for use. Remove or carefully protect all food and food packaging materials prior to treatment. Vacate treatment area and do not reenter treated area until air is clear (minimum 20 minutes to reentry). For disinfection by ULV misting machine application, see the **VITAL OXIDE Supplemental Bulletin** specific for the equipment to be used.

To Prevent Mold or Mildew on Floors, Walls, Ceilings & Fabric: Remove as much surface dirt, mold, or mildew as possible by cleaning. Then spray on **VITAL OXIDE** from a distance of 12 inches until visibly wet and let air dry.

To Deodorize: **VITAL OXIDE** works by oxidation, not by masking of odors. Eliminates odors caused by fire smoke, tobacco smoke, musty odors, stale-cooking odors. Simply spray, fog, or wipe on full strength and let air dry to provide long lasting residual deodorizing action. When fogging to deodorize apply 1 quart per 2000 cubic ft. following fogger manufacturer's directions for use. **VITAL OXIDE** must come into contact with the cause of the odor to be effective. For pet urine stains in carpet, blot urine as dry as possible then saturate stain with **VITAL OXIDE** through carpet pad.

To Sanitize Food Contact Surfaces: *Staphylococcus aureus* (ATCC 6538) and *Escherichia coli* (ATCC 11229) 99.999% sanitization of food contact surfaces. Mix 1 part **VITAL OXIDE** to 9 parts tap water. For glassware, utensils, cookware, and dishware: Scrape and pre-wash, then wash with a good detergent. Rinse with potable water, then sanitize by immersion in **VITAL OXIDE** for 1 minute (or longer if specified by government sanitary code). Place on a rack or drain board to air dry. Do not rinse or wipe. **Food Contact Immobile Surfaces:** (food processing equipment, counter tops, tables, appliances) Remove all gross food particles and soil by cleaning and rinse with potable water. Apply **VITAL OXIDE** by wetting thoroughly and let stand for 1 minute (or longer if specified by government sanitary code). Let surfaces drain and air dry. Do not rinse or wipe.

To Sanitize Carpet: For synthetic carpet fibers such as nylon, olefin, or polypropylene – not intended for use on wool carpets. Test for color fastness in an inconspicuous area. Carpet should be clean or free of excessive soil before applying. Mix 1 part **VITAL OXIDE** to 5 parts water. Or use full strength. Apply at a rate of 2.5 oz per sq. ft. **VITAL OXIDE** must come into contact with contaminate to work. Allow to dwell for 10 minutes. Do not rinse, use an extraction wand and dry stroke carpet to remove excess moisture. Carpet can air dry or fans may be used if carpet needs to dry faster.

VITAL OXIDE SIDE PANEL 2

To Sanitize Non-food Contact Hard Non-porous Surfaces: *Staphylococcus aureus* (ATCC 6538) and *Enterobacter aerogenes* (ATCC 13048) Mix 1 part Vital Oxide with 9 parts water. Apply **Vital Oxide** as a one step cleaner sanitizer (5% organic soil load) by wetting thoroughly and let stand 5 mins., wipe and allow to air dry. No rinse required.

To Disinfect Farm Premises, Poultry Houses, Animal Pens & Vehicles: Remove all animals and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks, and other feeding and water appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with **VITAL OXIDE** for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Allow to air dry. Ventilate buildings, cars, boats, and other closed spaces. Drain any pooled product and/or rinse standing product with potable water. Do not house livestock or employ equipment until treatment has been absorbed, or dried.

This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization of high level disinfection. **This product is not to be used as a terminal sterilant/high level disinfectant on any surface of instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contact intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. **KILLS HIV-1, HBV, AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids and surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), Human Hepatitis B virus, and Human Hepatitis C Virus.

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATIONS AGAINST HIV-1, HBV, AND HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS

PERSONAL PROTECTION: When handling items soiled with blood or body fluids use disposable latex gloves, gowns, masks, or eye coverings.

CLEANING PROCEDURES: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of this product.

DISPOSAL OF INFECTIOUS MATERIALS: Blood and other body fluids should be autoclaved and disposed of according to Federal, State, and local regulations for infectious waste disposal. **CONTACT TIME:** Allow surfaces to remain wet for 5 minutes.

STORAGE AND DISPOSAL: Store in original closed container in a cool, dry, place away from heat and open flame. Non-refillable. Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container. Container Disposal: Rinse and offer empty container for recycling. If recycling is not available, discard container in trash. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Discard excess or used **VITAL OXIDE** solution in drain with running water.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS & DOMESTIC ANIMALS.
Causes moderate eye irritation. Avoid contact with eyes.

FIRST AID	
If in Eyes	Hold eye open and rinse slowly with water 15-20 mins. Remove contact lenses after first 5 mins. and continue rinsing. Call a Poison Control Center or doctor for treatment advice. Have product container or label with you when calling a poison control center or doctor, or going for treatment

Manufactured by: Vital Solutions, LLC, PO Box 9932, W. Palm Beach, FL 33419
Customer Service: 1-800-303-5405. www.vitaloxide.com

EPA Reg. No. 82972-1 EPA Est. No. 85804-NC-1 EPA Est. No. 29909-CA-1 (See batch code for actual establishment number) **NOTICE:** Seller expressly warrants that the product conforms to its chemical description. There are no other warranties associated with the sale of this product.

Master Label 4837-4558-5934, v. 7

VITAL OXIDE® Supplemental Bulletin for ULV Mist Application
with the
Zimek Micro-Mist® Application System
(Micro-Mist® Generator, Z-vac® Micro-Particle Evacuator, Applicators, and Sealing Devices)

Use Vital Oxide® with the Zimek Micro-Mist® Generator¹ to distribute an Ultra-Low Volume Mist to disinfect hard non-porous surfaces in enclosed spaces up to 3,400 ft³. Multiple units operating concurrently may be used to treat larger areas. The Micro-Mist® Generator will create liquid droplet aerosols at the generator exhaust with a mass median aerodynamic diameter between 4 and 5 µm that readily disperse within the enclosed space to create concentrations of 250 mg/m³ or higher in less than 30 minutes of operation.

Vital Oxide® delivered by a Zimek Micro-Mist® Generator will disinfect precleaned hard non-porous surfaces that are exposed to free air flow of the mist to a height of 8 ft. For hard to reach areas that do not see free air flow (including areas above 8 ft), ULV misting serves only as an adjunct to manual cleaning and disinfection.

Refer to the Zimek Operations Manual for Operators (Volume V2.92-US-Z4060-ROC-20100830) for additional guidance on operation of the Micro-Mist® Generator and related equipment.

Step 1: Site Preparation

Conduct routine cleaning of the room, vehicle or other target space that is capable of being sealed. Manually disinfect the surfaces of HVAC vents and smoke detectors and other hard non-porous features of the space to be treated. Install Zimek sealing devices to seal off HVAC vents, smoke detectors and other openings (tape or other sealing material may be used around doors) to ensure containment of the Micro-Mist® treatment.

Step 2: Misting and Dwell Cycles

Position the Zimek Micro-Mist® Generator reasonably close to the center of the space that has been sealed. Multiple units in larger spaces should be evenly spaced. Add Vital Oxide® full strength to the reservoir. Using the operator interface for the Zimek Micro-Mist® Generator, program room size and (for documentation purposes) treatment location. Activate the Zimek Micro-Mist® Generator, leave the space to be treated (during the 40 second countdown) and seal the egress point. Input to the operator interface determines the length of the mist cycle for different room sizes and then maintains a surface wetting concentration for a 10 minute dwell cycle.

Step 3: Z-VAC® Cycle/Ventilation/Re-entry

Surfaces should be completely dry before re-entering the space. A unique feature of the Zimek system is the Z-VAC® machine (specifically the Z-vac model Z23002 pictured in the Operations Manual for Operators referenced above for purposes of this Bulletin, a photograph of which appears below). This Z-VAC® filter unit automatically removes airborne disinfectant droplets at the end of the Dwell cycle and accelerates drying of surfaces, thereby facilitating rapid reentry so that the space can be returned to service. When connected to the Micro-Mist® Generator, the Z-VAC cycle will initiate automatically and signal when it is safe to re-enter the area. Follow the operators instructions if manually controlling the Z-VAC referenced herein.

Z-vac®
Micro-Particle Evacuator



Z-vac Model: Z23002

¹ The Zimek Micro-Mist® Generator is covered by the following U.S. patents: 7,524,454; 7,780,909; 7,959,859 B2; and 8,062,588.