



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

JUL 13 2010

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Olivia Laird  
Laird's Regulatory Consultants, Inc.  
Estates at Shenstone Farm  
17804 Braemar Place  
Leesburg, VA 20175

**FILE COPY**

Subject: Vital Technologies  
Vital Oxide  
EPA Registration No. 82972-1  
Submission Dated: April 12, 2010  
Receipt Dated: April 15, 2010

Dear Ms. Laird:

The following amendment submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is accepted with conditions.

Conditions:

The following revisions to the proposed label are required:

- a. The complete nomenclature for "MRSA" must be identified on the label.
- b. You must update the "Storage and Disposal" section of the label per PR-Notice 2007-4 for the container disposal language.
- c. Under the Deodorizing directions for use "...pet urine stains..." has been changed to "...pet urine odors..."
- d. The use site "refrigerated storage units" is not acceptable for this product and has been removed from the label.

**General Comments**

A stamped copy of the labeling accepted with conditions is enclosed. Submit one copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact me at [Henson.Wanda@epa.gov](mailto:Henson.Wanda@epa.gov) or call (703) 308-6345.

Sincerely,

A handwritten signature in black ink that reads "Wanda Y. Henson".

Wanda Y. Henson  
Acting Product Manager - Team 32  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

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, poultry houses, egg processing premises, hatcheries, swine premise sanitation, 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. Shake well before using. Test fabric for color fastness. Contains a dilute oxidizing agent. Do not mix with vinegar or acetic 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 include: 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, stovetops, telephones, 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.

**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 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* (ATCC11229) 99.999% sanitization of food contact surfaces. Mix 1 part **VITAL OXIDE** to 12 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.

# VITAL OXIDE®

## HOSPITAL DISINFECTANT

99.999% SANITIZATION OF FOOD  
CONTACT SURFACES



No rinse required sanitizer for food contact surfaces (D-2)

MOLD & MILDEW REMOVER  
PREVENTS MOLD & MILDEW  
ON HARD SURFACES & FABRIC

HEAVY DUTY ODOR ELIMINATOR

### VITAL-OXIDE KILLS:

**MRSA, 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) Swine Flu, Hepatitis B, Hepatitis C**

### ACTIVE INGREDIENTS:

|  |          |
|--|----------|
| Chlorine Dioxide.....  | 0.200%   |
| Alkyl (60% C <sub>14</sub> , 30% C <sub>16</sub> , 5% C <sub>12</sub> , 5% C <sub>18</sub> ) |          |
| dimethyl benzyl ammonium chloride.....   | 0.125%   |
| Alkyl (68% C <sub>12</sub> , 32% C <sub>14</sub> )   |          |
| dimethyl ethylbenzyl ammonium chloride.....  | 0.125%   |
| OTHER INGREDIENTS.....   | 99.550%  |
| Total.....   | 100.000% |

KEEP OUT OF REACH OF CHILDREN  
ACCEPTED CAUTION  
with COMMENTS  
See EPA label for additional precautionary statements

JUL 13 2010 NET CONTENTS: 128 oz.

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
recommended, for the pesticide,

829721

**To Sanitize Carpet:** For synthetic carpet fibers such nylon, olefin, or polypropylene - not intended for use on wool carpet. 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. Apply by sprayer at a rate of 1.7 gallons per 10 sq. yards (approx 22oz per sq. yd). **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.

**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 watering 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 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.

### 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 an 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 type1 (HIV-1) (associated with AIDS), Human Hepatitis B virus, and Human Hepatitis C virus.

### SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION 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. This contact time will not control bacteria.

**STORAGE AND DISPOSAL:** Store in original closed container in a cool, dry place away from heat and open flame. **DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### 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 Technologies, Inc. PO Box 9932 W. Palm Bch, FL 33419

Customer Service: 1-800-303-5405 [www.vitaltechnologies.com](http://www.vitaltechnologies.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.