VitalOxide

AN INTRODUCTION

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THE CURRENT CHALLENGE...

- The rise of H1N1 Swine, MRSA and other harmful bacterial infections, mold, food related illnesses, have intensified public attention of the cleanliness of where they live, work, travel and spend leisure time.

- The Increase of "casually-contacted" diseases are continually making news:

  - H1N1 swine & other flu's
  - MRSA
  - Legionella
  - E. Coli
  - SARS-CoV-2

  - Norovirus
  - Salmonella
  - Listeria
  - Hantavirus

THE CURRENT CHALLENGE…

- Poor indoor air quality affects human health on a daily basis.
  - Airborne diseases
  - Surface contamination
  - Biological pollutants
  - Animal dander

- Odors are warning signs to consumers of potential health risks to themselves and their pets.
  - Mold & Mildew
  - Air Duct contamination
  - Smoke
  - Bacteria and viruses

THE SOLUTION: VITAL OXIDE!

- Vital Oxide focus markets:
  - Hospitality Industry
  - Restaurant Industry
  - Health Care
  - Education
  - Athletic facilities
  - Public Transportation
  - Theaters
  - Corporate buildings
  - Government Facilities

VITAL OXIDE HAS A WIDE RANGE OF BENEFITS:

1. One - step, Hospital Grade Disinfectant and Food Surface Contact Sanitizer.

2. Fast acting and Long Lasting - 99.999% kill.

3. Complete Mold, Mildew and Odor Elimination.

4. Shelf stable for One Year.

5. Ready to Use with Dilution Options.

6. Works through highly selective oxidation.

   ▪ Reacts with amino acids at a cellular level to denature proteins and eliminate bacteria.

VITAL OXIDE HAS A WIDE RANGE OF BENEFITS:

7. Versatile applications - One product Many Uses:
   - Used to eradicate mold, inactive virus, bacteria.
   - Hospital grade disinfection – MRSA.
   - NSF approved no-rinse for food contact surfaces.
   - Heavy Odor deactivation–inc. tobacco smoke & pet urine.
   - Safe on treated surfaces - pH balanced non- corrosive to materials and fabrics.

8. Environmentally conscious.
   - 100% biodegradable, no harmful VOC, non-corrosive, not irritating to skin, odor free.
   - Environmentally smart alternative to bleach-based disinfectants (no trihalomethanes or haloacetic acids which produce cancer).

EPA RATING SYSTEM

	MOST TOXIC			LEAST TOXIC
	BLEACH		QUATS	VITAL OXIDE
STUDY	CAT. 1	CAT. 2	CAT. 3	CAT. 4
Acute Oral	Up to 50mg/kg	>50 through 500 mg/kg	>500 through 5000 mg/kg	> 5000 mg/kg
Acute Dermal	Up to 200mg/kg	>200 through 2000 mg/kg	>2000 through 5000 mg/kg	>5000 mg/kg
Acute Inhalation	Up to 0.05 mg/liter	>0.05 through 0.50 mg/liter	>0.50 through 2.00 mg/liter	> 2.00 mg/liter
Primary Eye Irritation	Corrosive or corneal irritation for more than 21 days	Corneal or eye irritation clearing in 8-12 days	Corneal or eye irritation clearing in less than 7 days	Minimal effects clearing in 24 hours
Primary Skin irritation	Corrosive	Severe irritation at 72 hours	Moderate irritation at 72 hours	Mild or slight irritation at 72 hours
Signal words for label	DANGER	WARNING	CAUTION	None Required

ANTI-MICROBIAL ACTION:

1. Vital Oxide is a broad-spectrum anti-microbial that performs against a wide variety of targets:

- Bacteria
- Yeasts
- Viruses
- Fungi
- Spores
- Mold

- MRSA
- Norovirus
- Legionella
- H1N1 virus (Swine flu)
- E. Coli
- SARS-CoV-2

2. Vital Oxide is very effective at low concentrations over a wide pH range.

THE VITAL OXIDE BUSINESS ADVANTAGE:

- Provides benefits of 4 individual products and performs all 4 steps at the same time:

  1. **Cleans**

  2. **Disinfects**

  3. **Deodorizes**

  4. **Mold Removal**

THE VITAL OXIDE BUSINESS ADVANTAGE:

- Vital Oxide can be applied directly to hard or porous surfaces via existing equipment or high efficiency methods.

    1. Add to tile, floor and bathroom cleaning systems.

    2. Add to clothing, uniform and door mat wash systems.

    3. Treat large areas quickly utilizing electrostatic sprayers.

- Vital Oxide Eliminates dangerous bacteria and eliminates odors in one step.

SUMMARY

- Performance Ready.

- Easy to Apply in All Environments.

- Environmentally Sound and Biodegradable.

- EPA Registered in 50 States.

- Registered in Canada.

- NPD Products Ltd.

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