MULTI-OXIDE #2390

One-Step Disinfectant, Cleaner and Deodorant

Features:

- Kills MRSA, Norovirus, E. coli and many more
- Cleans with the power of hydrogen peroxide
- Hospital-grade germicidal cleaner
- Can be used on any hard, non-porous surface
- Extremely versatile
- Bactericide, virucide, fungicide and sanitizer in one
- No NPE's (non-phenyl ethoxlates) making it safer for the environment
- No Quaternary ammonium chlorides eliminates the issue of Quat binding and ensures proper disinfection
- No VOC's so it can be sold in every state
- No fragrances or dyes eliminates potential allergic outbreaks
- Approved to be used in the BACKPACK ELECTROSTATIC SPRAYERS (4132) HAND-HELD ELECTROSTATIC SPRAYER (4131)

Description:

MULTI-OXIDE is a one-step germicidal cleaner and deodorant. While designed for hospital use, this formula can be used in any application that requires disinfecting, sanitizing, deodorizing or cleaning. It can also be used to control mold and mildew odors on hard, non-porous surfaces. Efficacy data available below.

MULTI-OXIDE (EPA REG. NO. 45745-11-11861) has demonstrated effectiveness against viruses similar to 2019 novel coronavirus-Wuhan (also 2019-nCoV) on hard non-porous surfaces. Therefore, this product can be used against 2019 novel coronavirus-Wuhan (also 2019-nCoV) when used in accordance with the directions on hard, non-porous surfaces. Refer to the CDC website (https://www.cdc.gov/coronavirus/2019-ncov/index.html) for additional information.

Applications:

- Shower Stalls
- Chrome-Plated Intakes
- Portable Latrines
- School Bus Seats
- Restroom Doors
- Toilets
- Counter Tops
- Classroom Furniture
- Glazed Tiles
- Urinals
- Restroom Fixtures
- Locker Rooms
- Auditoriums
- Cafeterias
- Exercise Equipment
- Office Furniture

For Use By:

- Bus Garages
- Hotels/Motels
- Healthcare Facilities
- Colleges/Universities
- Housing Authorities
- School Systems
- Hospitals
- Correctional Facilities
- Municipalities

Ingredients: Hydrogen peroxide; phosphoric acid; alcohols, C6-12, ethoxylated; dodecylbenzenesulfonic acid; propylene glycol n-propyl ether; water

Product Characteristics:

Appearance:	Clear, colorless liquid
Odor:	None
pH:	<1.0
Melting/Freezing Point:	Approximately 32°F
Boiling Point/Range:	Approximately 212°F
Specific Gravity:	1.04
Solubility (water):	Completely soluble @ 25°C (77°F)
Flash Point:	Not applicable
At Use Dilution:	
pH:	2.5-3.5
Storage:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children. Keep only in original container. Keep from freezing.
Transport Information:	
UN Number:	Not regulated
Proper Shipping Name:	Not regulated
Class:	Not regulated
Packing Group:	Not regulated

Pictograms:

Signal Word:
DANGER.

Personal Protective Equipment Required:

Directions:

When used on a floor that is going to coated with a finish or restorer, it must be rinsed

Using Mop/Sponge/Cloth/Trig Sprayer/Auto-Scrubber/Electrostatic Sprayers:

- Dilute product using application chart for dilution ratio
- Preclean heavily soiled surfaces
- Apply use solution to hard, nonporous surfaces
- Make sure to thoroughly wet surfaces
- Surface must remain wet for the entire necessary contact time
- Wipe surface and allow to air dry
- Rinsing is only required when used on a floor that is going to be coated with finish or restorer

See product label for complete mixing and use directions.

**Do not use on glassware, utensils or dishes.*

**Not recommended for use on copper, brass, granite, marble or zinc.*

GENERAL DIRECTIONS FOR USE WITH ELECTROSTATIC SPRAYER APPLICATION:

Note: Consider material compatibility and potential for damage prior to application.

Place signs or warning indicators outside the treatment area to indicate that treatment is in progress. Ensure that bystanders and pets are not present in the area to be treated. Put on appropriate PPE. At a minimum, this must include safety glasses, gloves and N95 mask. Follow manufacturer's instructions for sprayer use. Spray droplet particle size should be set to limit volume median diameter of ≥40µm. Place the electrostatic spray function in the ON position for electrostatic spray models that have the functionality to toggle ON/OFF. Wiping is not required to ensure surface disinfection; however, you may choose to wipe specific surfaces to polish them (e.g., glass, mirrors) or to remove visible residue after the contact time is achieved. Individuals may enter area 30 minutes after treatment.

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Efficacy Data

Dilution Ratio Chart:

Use	Dilution Ratio	Contact Time
Sanitizing:	1 oz. per gallon	5 min
Sanitize Nonfood Contact Surface:	1 oz. per gallon	5 min
Antibiotic Resistant Bacteria:	2 oz. per gallon	10 min
Virucidal Activity:	2 oz. per gallon	5 min
Cleaner/Disinfectant:	2 oz. per gallon	10 min
Fungicidal Activity:	8 oz. per gallon	10 min
Animal Premise Virucidal:	2 oz. per gallon	10 min
Animal Housing Facility:	2 oz. per gallon	10 min
Deodorizer:	0.5-1 oz. per gallon	10 min
Glass Cleaner:	1 oz. per gallon	Spray & wipe

Bactericidal Activity:

Use a dilution ratio of 1:64 (2 oz product to 1 gallon water), in the present of 200 ppm hard water, 5% serum, unless otherwise noted, this product kills the following on hard, nonporous inanimate surfaces

Bacteria	Contact Time
Pseudomonas aeruginosa	10 minutes
Staphylococcus aureus	10 minutes
Salmonella enterica	10 minutes
Escherichia coli (0157:H7)	10 minutes
Streptococcus pneumoniae	10 minutes

Virucidal Activity:

Use a dilution ratio of 1:64 (2 oz product to 1 gallon water)

Virus	Contact Time
Avian Influenza A (H7N9) virus	1 minute
Adenovirus type 8	5 minutes
Hepatitis B Virus (HBV) (Duck Hepatitis B Virus as the surrogate)	5 minutes on a precleaned surface
Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus as the surrogate)	5 minutes
Herpes Simplex Virus Type 1	5 minutes
Herpes Simplex Virus Type 2	5 minutes
HIV-1 (Human Immunodeficiency Virus Type 1) (AIDS virus)	1 minute
Influenza Virus Type A (H1N1)	1 minute
Norovirus (Feline Calicivirus as the surrogate)	5 minutes
Rhinovirus Type 37	5 minutes
Rotavirus	5 minutes

Antibiotic-Resistant Bactericidal Activity:

Bacteria	Dilution Ratio	Contact Time
Staphylococcus aureus, Methicillin resistant (MRSA)	2 oz product to 1 gallon water	10 minutes
Staphylococcus aureus, Community Associated Methicillin resistant (CA-MRSA) (Genotype USA300)	2 oz product to 1 gallon water	10 minutes
Staphylococcus aureus, Community Associated Methicillin resistant (CA-MRSA) (Genotype USA400)	2 oz product to 1 gallon water	10 minutes
Staphylococcus epidermidis, Methicillin resistant (MRSE)	2 oz product to 1 gallon water	10 minutes
Streptococcus pneumoniae, Penicillin resistant (PRSP)	2 oz product to 1 gallon water	10 minutes
Enterococcus faecium (Vancomycin resistant (VRE))	4 oz or 8 oz product per gallon of water	10 minutes

Sanitizing:

Bacteria	Dilution Ratio	Contact Time
Staphylococcus aureus	8 oz per gallon of water	1 minute
Enterobacter aerogenes	1 oz per gallon of water	5 minutes
Salmonella enterica	1 oz per gallon of water	5 minutes

Fungicidal Performance:

Virus	Dilution Ratio	Contact Time
Trichophyton mentagrophytes (Athlete's foot fungus)	8 oz per gallon of water	10 minutes

Animal Premise Virucidal* Performance:

Virus	Dilution Ratio	Contact Time
Avian Influenza A (H7N9) virus	2 oz per gallon of water	1 minute
*Canine Parvovirus (CPV)	8 oz per gallon of water	10 minutes