



AIRCRAFT CLEANERS & DISINFECTANTS

CALLA® 1452 RTU



Product description:
NEUTRAL DISINFECTANT CLEANER

FEATURES:

- ▶ Disinfectant
- ▶ Cleaner
- ▶ Deodorizer
- ▶ Fungicide (Pathogenic Fungi)
- ▶ Virucide
- ▶ Detergent
- ▶ Same as **Calla® 1452** but in pre-metered packaging
- ▶ Mildewstat (hard, non-porous, and inanimate surfaces)

KEY BENEFITS:

- ▶ Disinfects hard non-porous surfaces by killing 99.9% of new SARS-CoV-2 virus strains responsible for Covid-19 in just one step
- ▶ Included on the US EPA's list N of products with emerging viral pathogens and human coronavirus claims for use against new strains of SARS-CoV-2
- ▶ Does not stain aircraft interiors and plastics
- ▶ Contains a non-flammable flash point
- ▶ Phosphate Free
- ▶ Provides effective cleaning, deodorizing, and disinfecting



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Rev: 20066H
09-03-2021



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EPA expects all products on List N to kill all strains and variants of SARS-CoV-2. Genetic changes to the virus do not impact the efficacy of disinfectants.

List N disinfectants work by chemically inactivating viruses. The difficulty of killing a virus depends on its physical features, and the recent mutations to SARS-CoV-2 have not changed the basic physical properties. For more information see <https://www.epa.gov/coronavirus/do-disinfectants-kill-newer-strains-coronavirus>

SPECS:

- AMS 1452 (Disinfectant Aircraft, General Purpose) (Meets requirements)
- AMS 1453 (Disinfectant Cleaner For Aircraft Interior) (Meets requirements)
- AMS 1530B (Wipe-Off Cleaner) (Meets requirements)
- AMS 1550B (Cleaner for Interior) (Meets requirements)
- Boeing D6-7127 (Meets requirements)
- Boeing D6-17487 (Meets requirements)
- NAVAIR: 01-1A-509-2
- NSN: 6840-01-561-3126 (Starter Kit)
- NSN: 6840-01-687-1371 (Refill Cartridges)
- Provides effective cleaning, deodorizing, and disinfecting
- TM 1-1500-344-23-2
- T.O.: 1-1-691, 1C-130A-23 and 1C-5A-23-1

APPLICATIONS:

- ✓ To disinfect inanimate, hard, and non-porous surfaces, fill the bottle to the water fill line.
- ✓ Do not overfill the bottle because the cartridge will not empty if the bottle is overfilled
- ✓ Insert the 0.25 oz cartridge into the bottle neck.
- ✓ Attach the sprayer to the bottle and shake gently
- ✓ See next page to see a visual demonstration of how this works.

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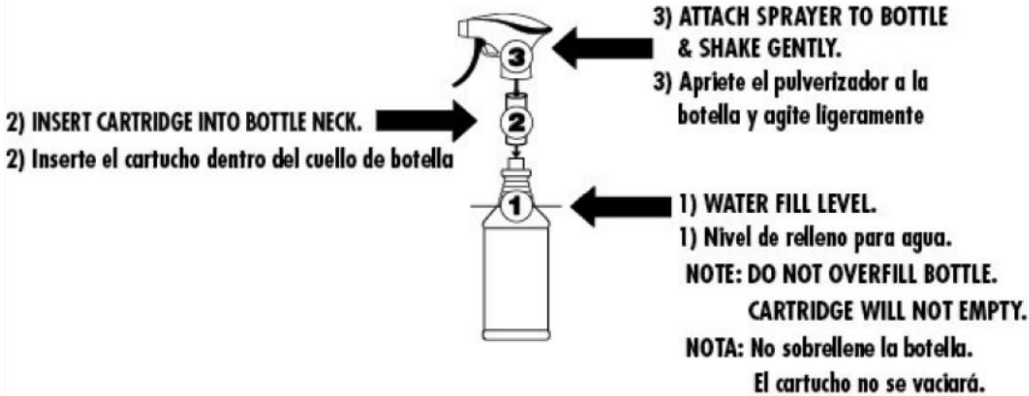
AIRCRAFT CLEANERS & DISINFECTANTS

CALLA® 1452 RTU



Product description: **NEUTRAL DISINFECTANT CLEANER**

APPLICATIONS:



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Product description:

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PHYSICAL PROPERTIES:

- ▶ **% Active:** 2.713%
- ▶ **Density:** 8.38 lbs/gal
- ▶ **Flash Point:** Not Flammable
- ▶ **pH:** 6.4

AVAILABLE PACK SIZES:

- ▶ Starter Kit (**Calla® 1452 RTU** Pre-Metered Spray Bottles)-103793]
- ▶ Case of 24 Refill Cartridges (**Calla® 1452 RTU** Pre-Metered Spray Bottles)-103795]
- ▶ Case of 4 Gallons (**Calla® 1452** Concentrate)-009450]
- ▶ 5 Gallon Pails (**Calla® 1452** Concentrate)-007247]

VIRUCIDAL DATA:

Test Method: U.S. E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, Section 91-2 (f), and Section 91-30, (d), (e), November 1982.

Protocols for Testing the Efficacy of Disinfectants against Hepatitis B Virus (HBV) (EPA, Federal Register, Vol. 65, No. 166, 8/25/2000, p. 51828).

Protocol for Testing Disinfectants against Hepatitis C Virus using Bovine Viral Diarrhea Virus as approved by the U.S. EPA on August 15, 2002.

Test Conditions: 10 minute contact time, 5% organic soil load, sterile glass petri dishes, 400 ppm hard water, 21-24°C exposure temperature, and 4 oz/gal dilution.

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Product description:
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VIRUCIDAL DATA:

Results:

Test Organism	Sample	Titer Reduction
*Avian Influenza A Virus (H3N2) (Avian Ressortant) (ATCC VR-2072)	A B	≥4.25 log ₁₀ ≥4.25 log ₁₀
*Avian Influenza Virus, Type A (Turkey/WIS/66) (H9N2)	A B	≥4.0 log ₁₀ ≥4.0 log ₁₀
*Bovine Rhinotracheitis, strain LA (ATCC VR-188)	A B	≥5.0 log ₁₀ ≥5.0 log ₁₀
‡Bovine Viral Diarrhea Virus (BVDV)	A B	5.9 log ₁₀ 5.9 log ₁₀
*Canine Distemper Virus, strain Lederle (ATCC VR-128)	A B	≥6.25 log ₁₀ ≥6.25 log ₁₀
*Feline Picornavirus, strain FRV (ATCC VR-649)	A B	≥4.25 log ₁₀ ≥4.25 log ₁₀
*Avian Influenza A Virus (H3N2) (Avian Ressortant) (ATCC VR-2072)	A B	≥4.25 log ₁₀ ≥4.25 log ₁₀
*Avian Influenza Virus, Type A (Turkey/WIS/66) (H9N2)	A B	≥4.0 log ₁₀ ≥4.0 log ₁₀
*Bovine Rhinotracheitis, strain LA (ATCC VR-188)	A B	≥5.0 log ₁₀ ≥5.0 log ₁₀
‡Bovine Viral Diarrhea Virus (BVDV)	A B	5.9 log ₁₀ 5.9 log ₁₀
*Canine Distemper Virus, strain Lederle (ATCC VR-128)	A B	≥6.25 log ₁₀ ≥6.25 log ₁₀



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VIRUCIDAL DATA:

Test Organism	Sample	Titer Reduction
*Feline Picornavirus, strain FRV (ATCC VR-649)	A B	≥4.25 log ₁₀ ≥4.25 log ₁₀
†Hepatitis B Virus (HBV) (Duck Hepatitis B Virus-DHBV)	A B	4.5 log ₁₀ 4.7 log ₁₀
‡Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus-BVDV)	A B	5.9 log ₁₀ 5.9 log ₁₀
*Herpes Simplex Type 1 (ATCC VR-260)	A B	≥5.0 log ₁₀ ≥5.0 log ₁₀
*Herpes Simplex Type 2 (ATCC VR-734)	A B	≥6.0 log ₁₀ ≥6.0 log ₁₀
*Human Coronavirus (ATCC VR-740, strain 229E)	A B	≥3.0 log ₁₀ ≥3.0 log ₁₀
*Human Immunodeficiency Virus, HTLV-III _{RF} , strain of HIV-1 (associated with AIDS)	A B	≥3.5 log ₁₀ ≥3.5 log ₁₀
*Human Immunodeficiency Virus type 2 (HIV-2), strain CBL-20	A B	≥3.25 log ₁₀ ≥3.25 log ₁₀
*Influenza A2, strain Hong Kong (ATCC VR-544)	A B	≥4.25 log ₁₀ ≥4.25 log ₁₀
*Pandemic 2009 H1N1 Influenza A Virus	(Refer to Note below table on next page)	
*Paramyxovirus (Mumps) (ATCC VR-1438)	A B	≥3.0 log ₁₀ ≥3.0 log ₁₀



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VIRUCIDAL DATA:

Test Organism	Sample	Titer Reduction
*Porcine Respiratory & Reproductive Syndrome Virus (PRRSV), strain NVSL	A B	≥5.0 log ₁₀ ≥5.0 log ₁₀
*Pseudorabies, strain Aujeszky (ATCC VR-135)	A B	≥5.25 log ₁₀ ≥5.25 log ₁₀
*Rabies Virus (attenuated CDC ERA strain)	A B	3.0 log ₁₀ 3.0 log ₁₀
*Rotavirus, strain SA-11 (ATCC VR-899)	A B	4.5 log ₁₀ 4.5 log ₁₀
*SARS Associated Coronavirus (ZeptoMetrix)	A B	3.03 log ₁₀ 3.03 log ₁₀
*Vaccinia, strain WR (ATCC VR-119)	A B	≥5.5 log ₁₀ ≥5.5 log ₁₀

Conclusions: Under the conditions of this investigation, **Calla® 1452 RTU** demonstrated virucidal activity against Avian Influenza A Virus (H3N2), Avian Influenza Virus, Type A (H9N2), Bovine Rhinotracheitis, Bovine Viral Diarrhea Virus (BVDV), Canine Distemper Virus, Feline Picornavirus, Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Herpes Simplex Type 1, Herpes Simplex Type 2, Human Coronavirus, Human Immunodeficiency Virus (HIV-1), Human Immunodeficiency Virus Type 2 (HIV-2), Influenza A2, Pandemic 2009 H1N1 Influenza A Virus, Paramyxovirus (Mumps), Porcine Respiratory & Reproductive Syndrome Virus (PRRSV), Pseudorabies, Rabies Virus, Rotavirus, SARS Associated Coronavirus, and Vaccinia, according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

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VIRUCIDAL DATA:

Note: Per the EPA guidance document dated October 21, 2009, disinfectant products that bear label claims against human, avian, or swine influenza A virus, and have submitted and received approval of efficacy data to support these label claims, may include a label claim against the Pandemic 2009 H1N1 Influenza A Virus.

DISINFECTION DATA:

Test Method: AOAC Use Dilution

Test Conditions: 5% organic soil load, 10 minute contact time, stainless steel carrier substrates, 400 ppm hard water, 20°C exposure temperature, and 4 oz/gal dilution.

Results:

Test Organism	No. of Carriers		
	Sample	Exposed	Positive
Staphylococcus aureus (ATCC 6538)	A	60	1
	B	60	1
	C	60	1
Salmonella (choleraesuis) enterica (ATCC 10708)	A	60	0
	B	60	0
	C	60	1
Pseudomonas aeruginosa PRD-10 (ATCC 15442)	A	60	0
	B	60	0
	C	60	1
Ampicillin resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0

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DISINFECTION DATA:

Test Organism	No. of Carriers		
	Sample	Exposed	Positive
Bactrim resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Bordetella bronchiseptica (ATCC 31437)	A	10	0
	B	10	0
Cefazolin resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Staphylococcus aureus (ATCC 6538)	A	60	1
	B	60	1
	C	60	1
Salmonella (choleraesuis) enterica (ATCC 10708)	A	60	0
	B	60	0
	C	60	1
Pseudomonas aeruginosa PRD-10 (ATCC 15442)	A	60	0
	B	60	0
	C	60	1
Ampicillin resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Bactrim resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Bordetella bronchiseptica (ATCC 31437)	A	10	0
	B	10	0
Cefazolin resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0



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DISINFECTION DATA:

Test Organism	No. of Carriers		
	Sample	Exposed	Positive
Ceftazdime resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Ceftriaxone resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Ciprofloxacin resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) (NRS 123, Genotype USA400)	A	10	0
	B	10	0
	C	10	0
Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) (NRS 384, Genotype USA300)	A	10	0
	B	10	0
	C	10	0
Corynebacterium ammoniagenes (ATCC 6871)	A	10	0
	B	10	0
Enterobacter aerogenes (ATCC 13048)	A	10	0
	B	10	0
Enterobacter cloacae (ATCC 23355)	A	10	0
	B	10	0
Enterobacter cloacae (clinical isolate)	A	10	0
	B	10	0
Enterococcus faecalis (ATCC 19433)	A	10	0
	B	10	0
Enterococcus faecalis (clinical isolate)	A	10	0
	B	10	0



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Test Organism	No. of Carriers		
	Sample	Exposed	Positive
Escherichia coli (ATCC 11229)	A	10	0
	B	10	0
Escherichia coli (clinical isolate)	A	10	0
	B	10	0
Fusobacterium necrophorum (ATCC 27852)	A	10	0
	B	10	0
Gentamicin resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Levofloxacin resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Klebsiella pneumoniae subsp. pneumoniae (ATCC 13883)	A	10	0
	B	10	0
Lactobacillus casei subsp. rhamnosus (ATCC 7469)	A	10	0
	B	10	0
Listeria monocytogenes (ATCC 35152)	A	10	0
	B	10	0
Methicillin Resistant Staphylococcus aureus (MRSA) (ATCC 33592)	A	10	0
	B	10	0
Pasteurella multocida (ATCC 7707)	A	10	0
	B	10	0
Proteus mirabilis (ATCC 9921)	A	10	0
	B	10	0

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Test Organism	No. of Carriers		
	Sample	Exposed	Positive
Proteus mirabilis (ATCC 25933)	A	10	0
	B	10	0
Levofloxacin resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Klebsiella pneumoniae subsp. pneumoniae (ATCC 13883)	A	10	0
	B	10	0
Lactobacillus casei subsp. rhamnosus (ATCC 7469)	A	10	0
	B	10	0
Listeria monocytogenes (ATCC 35152)	A	10	0
	B	10	0
Methicillin Resistant Staphylococcus aureus (MRSA) (ATCC 33592)	A	10	0
	B	10	0
Pasteurella multocida (ATCC 7707)	A	10	0
	B	10	0
Proteus mirabilis (ATCC 9921)	A	10	0
	B	10	0
Proteus mirabilis (ATCC 25933)	A	10	0
	B	10	0
Proteus vulgaris (ATCC 13315)	A	10	0
	B	10	0
Salmonella (paratyphi B) enterica (ATCC 8759)	A	10	0
	B	10	0
Salmonella (pullorum) enterica (ATCC 9120)	A	10	0
	B	10	0



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Test Organism	No. of Carriers		
	Sample	Exposed	Positive
Salmonella (typhi) enterica (ATCC 6539)	A	10	0
	B	10	0
Salmonella (typhimurium) enterica (ATCC 14028)	A	10	0
	B	10	0
Salmonella (enteritidis) enterica (ATCC 13076)	A	10	0
	B	10	0
Serratia marcescens (ATCC 8100)	A	10	0
	B	10	0
Shigella dysenteriae (ATCC 12180)	A	10	0
	B	10	0
Shigella flexneri Type 2b (ATCC 12022)	A	10	0
	B	10	0
Shigella sonnei (ATCC 25931)	A	10	0
	B	10	0
Staphylococcus aureus subsp. aureus (ATCC 33592)	A	10	0
	B	10	0
Staphylococcus aureus (clinical isolate)	A	10	0
	B	10	0
Staphylococcus epidermidis (ATCC 29641)	A	10	0
	B	10	0
Staphylococcus epidermidis (clinical isolate)	A	10	0
	B	10	0
Streptococcus pyogenes Group A (ATCC 19615)	A	10	0
	B	10	0

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DISINFECTION DATA:

Test Organism	No. of Carriers		
	Sample	Exposed	Positive
Streptococcus pyogenes (clinical-flesh eating strain, BIRD M3)	A	10	0
	B	10	0
Tobramycin resistant Acinetobacter baumannii (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Vancomycin Resistant Enterococcus faecalis (VRE) (ATCC 51575)	A	10	0
	B	10	0
Vancomycin Intermediate Resistant Staphylococcus aureus (VISA) (HIP-5836)	A	10	0
	B	10	0
Xanthomonas maltophilia (clinical isolate)	A	10	0
	B	10	0
Xanthomonas axonopodis pathovar citri @ a dilution ratio of 1:13.5 (2000 ppm active quaternary)	A	10	0
	B	10	0

Conclusions: Under the conditions of this investigation, **Calla® 1452 RTU** demonstrated disinfectant activity against *Staphylococcus aureus*, *Salmonella (choleraesuis) enterica*, *Pseudomonas aeruginosa* PRD-10, Ampicillin resistant *Acinetobacter baumannii*, Bactrim resistant *Acinetobacter baumannii*, *Bordetella bronchiseptica*, Cefazolin resistant *Acinetobacter baumannii*, Ceftazidime resistant *Acinetobacter baumannii*, Ceftriaxone resistant *Acinetobacter baumannii*, Ciprofloxacin resistant *Acinetobacter baumannii*, Community Associated Methicillin Resistant *Staphylococcus aureus* (CAMRSA) (NRS 123, Genotype USA400), Community Associated Methicillin Resistant *Staphylococcus aureus* (CA-MRSA) (NRS384, Genotype USA300), *Corynebacterium ammoniagenes*, *Enterobacter aerogenes*, *Enterobacter cloacae*, *Enterococcus faecalis*, *Escherichia coli*, *Fusobacterium necrophorum*, Gentamicin resistant *Acinetobacter baumannii*, Levofloxacin resistant *Acinetobacter baumannii*, *Klebsiella pneumonia subsp. pneumoniae*, *Lactobacillus casei subsp. rhamnosus*, *Listeria monocytogenes*, Methicillin Resistant *Staphylococcus aureus* (MRSA), *Pasteurella multocida*, *Proteus*

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DISINFECTION DATA:

mirabilis (ATCC 9921), Proteus mirabilis (ATCC 25933), Proteus vulgaris, Salmonella (paratyphi B) enterica, Salmonella (pullorum) enterica, Salmonella (typhi) enterica, Salmonella (typhimurium) enterica, Salmonella (enteritidis) enterica, Serratia marcescens, Shigella dysenteriae, Shigella flexneri Type 2b, Shigella sonnei, Staphylococcus aureus subsp. aureus, Staphylococcus epidermidis, Streptococcus pyogenes Group A, Streptococcus pyogenes (clinical flesh eating strain, BIRD M3), Tobramycin resistant Acinetobacter baumannii, Vancomycin Resistant Enterococcus faecalis (VRE), and Vancomycin Intermediate Resistant Staphylococcus aureus (VISA), according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

Calla® 1452 RTU also demonstrated disinfectant activity against the following antibiotic resistant clinical isolates: Enterobacter cloacae, Enterococcus faecalis, Escherichia coli, Staphylococcus aureus, Staphylococcus epidermidis, and Xanthomonas maltophilia. At a dilution ratio of 1:13.5 (2000 ppm active quaternary), **Calla® 1452 RTU** demonstrated disinfectant activity against Xanthomonas axonopodis pathovar citri (Citrus Canker Disease).

FUNGICIDAL DATA:

Test Method: AOAC Fungicidal Activity of Disinfectants

Test Conditions: 5% organic soil load, 20°C exposure temperature, 200 ppm hard water, and 4 oz/gal dilution.



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FUNGICIDAL DATA:

Results:

Test Organism	Sample	Exposure Time (min.) vs. Growth		
		5 Min	10 Min	15 Min
Trichophyton mentagrophytes (ATCC 9533)	A	+	0	0
	B	+	0	0
Candida albicans (ATCC 10231)	A	0	0	0
	B	0	0	0

Conclusions: Under the conditions of this investigation, **Calla® 1452 RTU** demonstrated fungicidal activity against *Trichophyton mentagrophytes* and *Candida albicans*, according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.

MILDEW FUNGISTATIC DATA:

Test Method: Hard Surface Mildew Fungistatic Test

Test Organism: *Aspergillus niger* (ATCC 6275)0

Test Conditions: 400 ppm hard water, ceramic tile carriers, and 4 oz/gal dilution.



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MILDEW FUNGISTATIC DATA:

Results:

Sample	No. of Exposed Tiles	No. of Tiles Showing Growth
A	10	0
B	10	0
Control	10	10

Conclusion: Under the conditions of this investigation, **Calla® 1452 RTU** demonstrated fungistatic activity against *Aspergillus niger*, according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungistat.