



AIRCRAFT CLEANERS & DISINFECTANTS

CALLA® 1452



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Product description: **NEUTRAL DISINFECTANT CLEANER**

FEATURES:

- ▶ **Calla® 1452** eliminates **99.9%[^]** of the virus that causes **COVID-19^{***}** on *hard non-porous surfaces in 1 minute!*
 - [^]when used according to disinfection directions
 - ^{***}SARS-Related Coronavirus 2
- ▶ A phosphate-free disinfectant and cleaner
- ▶ A Disinfectant
- ▶ A Detergent and Deodorizer
- ▶ A Virucide
- ▶ A Fungicide (**Pathogenic Fungi**)
- ▶ A Mildewstat (**On Hard Non-Porous, Inanimate Surfaces**)



Calla® 1452 has demonstrated effectiveness against viruses similar to the **Marburg** virus on hard non-porous surfaces. Therefore, **Calla® 1452** can be used against the **Marburg** virus when used in accordance with the directions for use against **Rotavirus (ATCC VR 899)** on hard non-porous surfaces. Refer to the **CDC** website at <https://www.cdc.gov/vhf/marburg/index.html> for additional information. Please see the most current **EPA** approved master label for product eligibility and for further details.

Calla® 1452 (**EPA Reg # 1839-168-67026**) has demonstrated effectiveness against viruses similar to **Hantavirus** on hard, non-porous surfaces. Therefore, this **product** can be used against **Hantavirus** when used in accordance with the directions for use against **Rotavirus (ATCC VR-899)** on hard, non-porous surfaces. Refer to the **CDC** website at <https://www.cdc.gov/hantavirus/hcp/clinical-overview/hps.html> for additional information.

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Product description:

NEUTRAL DISINFECTANT CLEANER

KEY BENEFITS:

- ▶ Provides effective cleaning, deodorizing, and disinfecting
- ▶ Disinfects hard, non-porous, and inanimate environmental surfaces, such as glazed ceramic tile, plastic surfaces, floors, walls, metal surfaces, windows, toilets and sinks, mirrors, sealed granite, doorknobs, sealed fiberglass, chairs, desks, stainless steel surfaces, and glazed porcelain (**when used as directed**)

SPECS:

- Airbus Canada CML 11-117
- Airbus CML 11AAA2
- AMS 1452A (Disinfectant Aircraft, General Purpose)
- AMS 1530B (Wipe-Off Cleaner)
- AMS 1550B (Cleaner for Interior)
- NAVAIR: 01-1A-509-2
- AMS 1453 (Disinfectant Cleaner For Aircraft Interior)
- Boeing BSS7434 (S/S D6-7127 rev M)
- Boeing D6-17487 rev T
- NSN: 6840-01-600-4177 (5 Gallon (18.9 Liter) Pail)
- NSN: 6840-01-656-7851 (Case of 4 each Gallon (3.8 Liter) Bottles)
- T.O.: 1-1-691, 1C-130A-23 and 1C-5A-23-1



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Product description:

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APPLICATIONS:

- ✓ **Disinfection** – To disinfect inanimate, hard non-porous surfaces, add **4 ounces** of **Calla® 1452** Neutral Disinfectant Cleaner per gallon of water. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer, or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow to remain wet for **10 minutes**, then remove excess liquid. For sprayer applications, spray **6-8 inches** from surface, rub with brush, sponge, or cloth. Do not breathe spray mist. For heavily soiled areas, a pre-cleaning step is required.
- ✓ **Fungicidal Activity** – At the **4 ounce per gallon** dilution, **Calla® 1452** is fungicidal against the pathogenic fungi, **Trichophyton Mentagrophytes (Athlete's Foot Fungus) (a cause of ringworm)** and **Candida Albicans**. Apply solution with a cloth, sponge, or hand pump trigger sprayer to hard, non-porous surfaces. Allow the surface to remain wet for **10 minutes**, then remove excess liquid. Diluted **Calla® 1452** should be applied **daily or more frequently** with heavy facility use.
- ✓ **Mildewstat** – To control mold and mildew (**Aspergillus niger**) and the odors they cause on pre-cleaned, hard, non-porous inanimate surfaces, add **4 ounces** of **Calla® 1452 per gallon** of water. Apply solution with a cloth, mop, sponge, or hand pump trigger sprayer making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears.
- ✓ Refer to the **Calla® 1452** application manual for detailed application instructions. This manual can be obtained by asking your **Zip-Chem®** sales rep for a copy of this document.



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VIRUCIDAL DATA:

Results:

Test Organism	Sample	Titer Reduction	Contact Time
*SARS-Related Coronavirus 2 [SARS-CoV-2] [USA-WA1/2020] [BEI NR-52281]	A B	-	1 minute
*Avian Influenza A Virus (H3N2) (Avian Ressortant) (ATCC VR-2072)	A B	≥4.25 log ₁₀ ≥4.25 log ₁₀	10 minutes
*Avian Influenza Virus, Type A (Turkey/WIS/66) (H9N2)	A B	≥4.0 log ₁₀ ≥4.0 log ₁₀	10 minutes
*Bovine Rhinotracheitis, strain LA (ATCC VR-188)	A B	≥5.0 log ₁₀ ≥5.0 log ₁₀	10 minutes
#Bovine Viral Diarrhea Virus (BVDV)	A B	5.9 log ₁₀ 5.9 log ₁₀	10 minutes
*Canine Distemper Virus, strain Lederle (ATCC VR-128)	A B	≥6.25 log ₁₀ ≥6.25 log ₁₀	10 minutes
Feline Leukemia (VR-717)	-	-	10 minutes
*Feline Picornavirus, strain FRV (ATCC VR-649)	A B	≥4.25 log ₁₀ ≥4.25 log ₁₀	10 minutes
†Hepatitis B Virus (HBV) (Duck Hepatitis B Virus-DHBV)	A B	4.5 log ₁₀ 4.7 log ₁₀	10 minutes
#Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus-BVDV)	A B	5.9 log ₁₀ 5.9 log ₁₀	10 minutes
*Herpes Simplex Type 1 (ATCC VR-260)	A B	≥5.0 log ₁₀ ≥5.0 log ₁₀	10 minutes
*Herpes Simplex Type 2 (ATCC VR-734)	A B	≥6.0 log ₁₀ ≥6.0 log ₁₀	10 minutes
*Human Immunodeficiency Virus, HTLV-IIIRF, strain of HIV-1 (associated with AIDS)	A B	≥3.5 log ₁₀ ≥3.5 log ₁₀	10 minutes
*Human Immunodeficiency Virus type 2 (HIV-2), strain CBL-20	A B	≥3.25 log ₁₀ ≥3.25 log ₁₀	10 minutes
*Human Coronavirus (ATCC VR-740, strain 229E)	A B	≥3.0 log ₁₀ ≥3.0 log ₁₀	10 minutes



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VIRUCIDAL DATA (CONTINUED FROM PAGE 4):

Test Organism	Sample	Titer Reduction	Contact Time
*Influenza A2, strain Hong Kong (ATCC VR-544)	A B	$\geq 4.25 \log_{10}$ $\geq 4.25 \log_{10}$	10 minutes
*Paramyxovirus (Mumps) (ATCC VR-1438)	A B	$\geq 3.0 \log_{10}$ $\geq 3.0 \log_{10}$	10 minutes
*Porcine Respiratory & Reproductive Syndrome Virus (PRRSV), strain NVSL	A B	$\geq 5.0 \log_{10}$ $\geq 5.0 \log_{10}$	10 minutes
*Pseudorabies, strain Aujeszky (ATCC VR-135)	A B	$\geq 5.25 \log_{10}$ $\geq 5.25 \log_{10}$	10 minutes
*Rabies Virus (attenuated CDC ERA strain)	A B	$3.0 \log_{10}$ $3.0 \log_{10}$	10 minutes
*Rotavirus, strain SA-11 (ATCC VR-899)	A B	$4.5 \log_{10}$ $4.5 \log_{10}$	10 minutes
*SARS Associated Coronavirus (ZeptoMetrix)	A B	$3.03 \log_{10}$ $3.03 \log_{10}$	10 minutes
*Vaccinia, strain WR (ATCC VR-119)	A B	$\geq 5.5 \log_{10}$ $\geq 5.5 \log_{10}$	10 minutes

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 (70°F-75°F) exposure temperature, and 4 oz per gallon dilution.

Conclusions: Under the conditions of this investigation, **Calla® 1452** demonstrated virucidal activity against **SARS-Related Coronavirus 2 (SARS-CoV-2)**, **Avian Influenza A Virus (H3N2)**, **Avian Influenza Virus, Type A (H9N2)**, **Bovine Rhinotracheitis**, **Bovine Viral Diarrhea Virus (BVDV)**, **Canine Distemper Virus**, **Feline Leukemia (VR-717)**, **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**, **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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DISINFECTION DATA:

Results:

Test Organism	No. of Carriers			
	Sample	Exposed	Positive	Contact Time
Ampicillin resistant Acinetobacter baumannii (clinical isolate-Fairfax Hospital CI 02001)	A B	10 10	0 0	10 minutes
Bactrim resistant Acinetobacter baumannii (clinical isolate-Fairfax Hospital CI 02001)	A B	10 10	0 0	10 minutes
Bordetella bronchiseptica (ATCC 31437)	A B	10 10	0 0	10 minutes
Cefazolin resistant Acinetobacter baumannii (clinical isolate-Fairfax Hospital CI 02001)	A B	10 10	0 0	10 minutes
Ceftazidime resistant Acinetobacter baumannii (clinical isolate-Fairfax Hospital CI 02001)	A B	10 10	0 0	10 minutes
Ceftriaxone resistant Acinetobacter baumannii (clinical isolate-Fairfax Hospital CI 02001)	A B	10 10	0 0	10 minutes
Ciprofloxacin resistant Acinetobacter baumannii (clinical isolate-Fairfax Hospital CI 02001)	A B	10 10	0 0	10 minutes
Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) (NRS 123, Genotype USA400)	A B C	10 10 10	0 0 0	10 minutes
Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) (NRS 384, Genotype USA300)	A B C	10 10 10	0 0 0	10 minutes
Corynebacterium ammoniagenes (ATCC 6871)	A B	10 10	0 0	10 minutes
Enterobacter aerogenes (ATCC 13048)	A B	10 10	0 0	10 minutes
Enterobacter cloacae (ATCC 23355)	A B	10 10	0 0	10 minutes
Enterobacter cloacae (clinical isolate)	A B	10 10	0 0	10 minutes
Enterococcus faecalis (ATCC 19433)	A B	10 10	0 0	10 minutes



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DISINFECTION DATA (CONTINUED FROM PAGE 6):

Test Organism	No. of Carriers			
	Sample	Exposed	Positive	Contact Time
Enterococcus faecalis (clinical isolate)	A	10	0	10 minutes
	B	10	0	
Escherichia coli (ATCC 11229)	A	10	0	10 minutes
	B	10	0	
Escherichia coli (clinical isolate)	A	10	0	10 minutes
	B	10	0	
Escherichia coli O111:H8 (BAA-184)	-	-	-	10 minutes
Fusobacterium necrophorum (ATCC 27852)	A	10	0	10 minutes
	B	10	0	
Gentamicin resistant Acinetobacter baumannii (clinical isolate-Fairfax Hospital CI 02001)	A	10	0	10 minutes
	B	10	0	
Klebsiella pneumoniae subsp. pneumoniae (ATCC 13883)	A	10	0	10 minutes
	B	10	0	
Lactobacillus casei subsp. rhamnosus (ATCC 7469)	A	10	0	10 minutes
	B	10	0	
Levofloxacin resistant Acinetobacter baumannii (clinical isolate-Fairfax Hospital CI 02001)	A	10	0	10 minutes
	B	10	0	
Listeria monocytogenes (ATCC 35152)	A	10	0	10 minutes
	B	10	0	
Methicillin Resistant Staphylococcus aureus (MRSA) (ATCC 33592)	A	10	0	10 minutes
	B	10	0	
Pasteurella multocida (ATCC 7707)	A	10	0	10 minutes
	B	10	0	
Proteus mirabilis (ATCC 9921)	A	10	0	10 minutes
	B	10	0	
Proteus mirabilis (ATCC 25933)	A	10	0	10 minutes
	B	10	0	
Proteus vulgaris (ATCC 13315)	A	10	0	10 minutes
	B	10	0	
Pseudomonas aeruginosa PRD-10 (ATCC 15442)	A	60	0	10 minutes
	B	60	0	
	C	60	1	



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DISINFECTION DATA (CONTINUED FROM PAGE 7):

Test Organism	No. of Carriers			
	Sample	Exposed	Positive	Contact Time
Salmonella enterica subsp. enterica serotype choleraesuis (ATCC 10708)	A	60	0	10 minutes
	B	60	0	
	C	60	1	
Salmonella enterica subsp. enterica serotype paratyphi B (ATCC 8759)	A	10	0	10 minutes
	B	10	0	
Salmonella enterica subsp. enterica serotype pullorum (ATCC 9120)	A	10	0	10 minutes
	B	10	0	
Salmonella enterica subsp. enterica serotype typhi (ATCC 6539)	A	10	0	10 minutes
	B	10	0	
Salmonella enterica subsp. enterica serotype typhimurium (ATCC 14028)	A	10	0	10 minutes
	B	10	0	
Salmonella enteritidis subsp. Enterica serotype enteritidis (ATCC 13076)	A	10	0	10 minutes
	B	10	0	
Serratia marcescens (ATCC 8100)	A	10	0	10 minutes
	B	10	0	
Shigella dysenteriae (ATCC 12180)	A	10	0	10 minutes
	B	10	0	
Shigella flexneri Type 2b (ATCC 12022)	A	10	0	10 minutes
	B	10	0	
Shigella sonnei (ATCC 25931)	A	10	0	10 minutes
	B	10	0	
Staphylococcus aureus (ATCC 6538)	A	60	1	10 minutes
	B	60	1	
	C	60	1	
Staphylococcus aureus subsp. aureus (ATCC 33592)	A	10	0	10 minutes
	B	10	0	
Staphylococcus aureus (clinical isolate)	A	10	0	10 minutes
	B	10	0	
Staphylococcus epidermidis (ATCC 29641)	A	10	0	10 minutes
	B	10	0	
Staphylococcus epidermidis (clinical isolate)	A	10	0	10 minutes
	B	10	0	
Streptococcus pyogenes Group A (ATCC 19615)	A	10	0	10 minutes
	B	10	0	

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DISINFECTION DATA (CONTINUED FROM PAGE 8):

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

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 (68°F) exposure temperature, and 4 oz per gallon dilution.

Conclusions: Under the conditions of this investigation, Calla® 1452 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 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), *Vancomycin Intermediate Resistant Staphylococcus aureus* (VISA), and *Xanthomonas maltophilia* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide. At a dilution ratio of 1:13.5 (2000 ppm active quaternary), Calla® 1452 demonstrated disinfectant activity against *Xanthomonas axonopodis pathovar citri* (Citrus Canker Disease).

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FUNGICIDAL DATA:

Results:

Test Organism	Sample	Exposure Time (min.) vs. Growth				Contact Time
		5 Min	10 Min	15 Min		
Trichophyton interdigitale (formerly mentagrophytes Trichophyton) (ATCC 9533) (Athletes Foot Fungus) (a cause of ringworm) (a cause of ringworm of the foot)	A	+	0	0	10 minutes	
	B	+	0	0		
Candida albicans (ATCC 10231)	A	0	0	0	10 minutes	
	B	0	0	0		

Test Method: AOAC Fungicidal Activity of Disinfectants

Test Conditions: 5% organic soil load, 20°C (68°F) exposure temperature, 200 ppm hard water, and 4 oz per gallon dilution.

Conclusions: Under the conditions of this investigation, Calla® 1452 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:

Results:

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

Test Method: Hard Surface Mildew Fungistatic Test

Test Organism: *Aspergillus niger* (ATCC 6275)

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

Contact Time For *Aspergillus niger* (ATCC 6275): 10 minutes

Conclusion: Under the conditions of this investigation, Calla® 1452 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.



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Product description:

NEUTRAL DISINFECTANT CLEANER

PHYSICAL PROPERTIES:

- ▶ **Density:** 8.38 lbs/gal (1004 grams/Liter)
- ▶ **Flash Point:** Not Flammable
- ▶ **pH:** 6.4
- ▶ **Shelf Life:** 3 Years From Date Of Shipment If Properly Stored

AVAILABLE PACK SIZES:

- ▶ Case of 4 each Gallon (4 each of 3.8 Liter) Bottles-009450
- ▶ 5 Gallon (18.9 Liter) Pails-007247