



How NaDCC Works

How it differs from traditional Hypochlorite Bleach

The active ingredient in **BruTab 6S** is Sodium dichloro-s-triazinetrione (NaDCC), which produces an Available Chlorine solution that is very effective as a disinfecting and sanitizing agent against a broad spectrum of micro-organisms.

While **BruTab 6S** does provide chlorine, it is not a hypochlorite as is traditional bleach. There are significant differences that need to be understood to differentiate the two product types.

Sodium hypochlorite in bleach is stabilized with caustics and as a result, it has a pH of 11 or higher. NaDCC on the other hand has a neutral pH of ~6.5 when dissolved in water making NaDCC less harmful to surfaces and skin than acidic and alkaline disinfectants.

Once in solution, NaDCC releases approximately 50% of its total chlorine content as Free Available Chlorine (FAC) which is the active disinfection agent. As the FAC is consumed during the disinfection process, the NaDCC continues to release chlorine maintaining the 50/50 equilibrium in solution for longer lasting disinfection power than bleach. Sodium hypochlorite releases all its chlorine content immediately and once consumed there is no replenishment making it less effective. This means that **BruTab 6S** is not inactivated by dirt/cloths/organic matter as easily as bleach.

FAC exists in two forms, Hypochlorous acid (HOCl) found in **BruTab 6S** solutions and Hypochlorite ion (OCl-) found in a bleach solution. Studies have shown that Hypochlorous acid has **4X** (four times) more disinfection power than the hypochlorite ion. HOCl is very similar to the water molecule allowing it to easily penetrate through the negatively charged cell wall. Once the HOCl enters the microorganism, it destroys the nucleus of the cell completing the disinfection process. The Hypochlorous acid found in bleach is used up very quickly, it doesn't penetrate the cell as easily and solutions must be replaced more often, especially in the presence of organic loads.

These differences lead to the unique advantages of BruTab 6S:

- Delivers more potent, longer lasting disinfection power in the form of Hypochlorous acid Strong and Cost Effective
- Has long lasting, available chlorine in reserve Stable solution that can be stored for 3 days in a closed container. Bleach becomes inactive after a day.
- Its tablet form is Stable for 3 years from date of manufacture. Bleach concentrates have a 6 month shelf life Stable/Sustainable product
- Neutral pH is less damaging to surfaces and equipment than acidic and alkaline disinfectants.







One product for use throughout an entire facility

US EPA Registered Cleaner-Disinfectant with efficacy against *C. difficile* spores, TB, and other microorganisms in 4 minutes. Kills Norovirus, Hepatitis A Virus, Hepatitis B Virus, Hepatitis C Virus and HIV-1 in 1 minute. Hospital Disinfectant. Complies with surface disinfection requirements of OSHA Bloodborne Pathogens Standard. Sanitizer Claim for Food Service Applications; Kills *Canine Parvovirus*.

Dilution and contact times vary by organism.



Neutral pH is less damaging to surfaces and equipment than acidic and alkaline disinfectants.

Neutral pH similar to skin. Will not dull floor finishes. Safe on most colorfast fabrics.

* Always test small area of clothing for color fastness before using.

STABLE

Economical — lasts longer resulting in

Longer shelf life in solution than bleach – 3 days compared to 1 day for bleach. Longer shelf life in tablet form than bleach – years compared to months for bleach. Continues working in the presence of organic load (i.e. blood and dirt). Sodium dichloro-s-triazinetrione retains killing power due to a 50 / 50 chemical equilibrium that continues to generate hypochlorous acid to replace that which is being used up in the process of destroying micro-organisms or contact with organic loads. This means that it is not inactivated by dirt/cloths/organic matter as easily as chlorine is depleted from bleach.

Cost-savings in multiple ways: Storage, Shipping, Handling, Waste Minimization

Small tablet size: Reduces SKUs – less warehouse space required to stock product compared to bleach and other liquid disinfectants. Reduces shipping costs. Non-hazardous shipping. Reduces packaging waste.

SIMPLE

Ease of training and usage

Exact dosage every time delivers accurate strength solution. Eliminates "measure and pour" guesswork. No dispensing equipment required.

SMELLS CLEAN

Leaves areas smelling clean and disinfected

Ideal for all areas in the facility including patient rooms, restrooms and shower rooms.



13.1g Tablets



PACKAGING INFORMATION

<u>Availability</u>

Product No. 161021

• 256 Tablet Tub/2 (8N)

BruTab 6S° is a US EPA registered broad spectrum disinfectant, virucide and food contact surface sanitizer as has been demonstrated by its performance in tests that are prescribed and regulated by the federal government under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

DILUTION CHART

Tablet Size	13.1 g		
Solution ppm (mg/L) Available Chlorine	Tablets	Gallons of Water	
100	1	10	
538	1	2	
1076	1	1	
2153	2	1	
4306	4	1	
5382	5	1	

Use-dilution labels available for prepared solution.

EPA Reg. No. 71847-6-106 EPA 27 DEC 18

Refer to label for directions for use, claims and other organisms.

TESTING SUMMARY: ATCC and/ 1 minute minimum 4 minute minimum 10 minute minimum or Strain contact time with contact time with Human Microorganisms for Disinfection, Germicidal, contact time Number and/ Disease/Effect organic soil load organic soil load Virucidal, and Fungicidal Claims # tablets or Surrogate # tablets # tablets (ppm Solution) organism (ppm Solution) (ppm Solution) 4 per gal. 2 per gal. Clostridium difficile spores **Spores** ATCC 43598 Colitis (4306 ppm) (2153 ppm) 5 per gal. **Bacteria** ATCC 35743 Tuberculosis (TB) Mycobacterium bovis (TB) (5382 ppm) Wound infections 4 per gal. ATCC BAA-1709 Acinetobacter baumannii **Bacteria** etc. (4306 ppm) Vancomycin Resistant 4 per gal. 1 per gal. Enteritis etc. **Bacteria** ATCC 51575 Enterococcus faecalis (VRE) (4306 ppm) (1076 ppm) 1 per gal. ATCC 35150 Escherichia coli 0157:H7 Bacteria Food poisoning (1076 ppm) 1 per gal. ATCC 4352 Klebsiella pneumoniae **Bacteria** Pneumonia (1076 ppm) Carbapenem resistant 4 per gal. Bacteria ATCC BAA-1705 Pneumonia Klebsiella pneumoniae (4306 ppm) 4 per gal. 1 per gal. Pseudomonas aeruginosa **Bacteria** ATCC 15442 Septicemia (4306 ppm) (1076 ppm) 4 per gal. 1 per gal. Salmonella enterica **Bacteria ATCC 10708** Food poisoning (4306 ppm) (1076 ppm) 4 per gal. (4306 ppm) Wound infections 1 per gal. Staphylococcus aureus Bacteria **ATCC 6538** (1076 ppm) Staphylococcus aureus Wound infections 4 per gal. 1 per gal. ATCC 33592 **Bacteria** MRSA & GRSA (4306 ppm) (1076 ppm) Wound infections, 1 per gal. ATCC 51624 **Bacteria** Staphylococcus epidermis (1076 ppm) 4 per gal. Bacteria ATCC 6305 Pneumonia Streptococcus pneumoniae (4306 ppm)

TESTING SUMMARY:

Human Microorganisms for Disinfe Virucidal, and Fungicidal		ATCC and/ or Strain Number and/ or Surrogate organism	Disease/Effect	1 minute minimum contact time with organic soil load # tablets (ppm Solution)	4 minute minimum contact time with organic soil load # tablets (ppm Solution)	10 minute minimum contact time # tablets (ppm Solution)
Coxsackievirus	Virus (Non-Enveloped)	ATCC VR-30	Hand, foot and mouth disease	4 per gal. (4306 ppm)		
Hepatitis A Virus	Virus (Non-Enveloped)	Strain HM- 175/18f	Hepatitis A	4 per gal. (4306 ppm)		1 per gal. (1076 ppm)
Norovirus	Virus (Non-Enveloped)	ATCC VR-782	Gastroenteritis	2 per gal. (2153 ppm)		
Poliovirus Type 1	Virus (Non-Enveloped)	ATCC VR-1000	Polio			1 per gal. (1076 ppm)
Rhinovirus (Type 14)	Virus (Non-Enveloped)	ATCC VR284	Common cold			1 per gal. (1076 ppm)
Avian Influenza A Virus (H5N1)	Virus (Enveloped)	CDC #2006719965	Flu	4 per gal. (4306 ppm)		
Hepatitis B Virus	Virus (Enveloped)	Duck Hepatitis B (DHBV)	Hepatitis B	4 per gal. (4306 ppm)		1 per gal. (1076 ppm)
Hepatitis C Virus	Virus (Enveloped)	Bovine Viral Diarrhea Virus Strain NADL	Hepatitis C	4 per gal. (4306 ppm)		
Herpes Simplex Virus Type 1	Virus (Enveloped)	ATCC VR-733	Herpes			1 per gal. (1076 ppm)
Human Immunodeficiency Virus Type 1	Virus (Enveloped)	Strain IIIB	AIDS	4 per gal. (4306 ppm)		1 per gal. (1076 ppm)
Influenza Virus (H1N1)	Virus (Enveloped)	ATCC VR-99	Swine flu			1 per gal. (1076 ppm)
Respiratory syncytial virus	Virus (Enveloped)	ATCC VR-26	Common cold			1 per 2 gal. (538 ppm)
Aspergillus fumigatus	Fungi	ATCC 36607	Respiratory infections	4 per gal. (4306 ppm)		
Candida albicans	Fungi	ATCC 10231	Thrush & Yeast Infections		4 per gal. (4306 ppm)	
Trichophyton interdigitale	Fungi	ATCC 9533	Athlete's foot			1 per gal. (1076 ppm)

Animal Microorgani	sms	ATCC and/or Strain Number	Disease/Effect	1 minute contact time with organic soil load # tablets (ppm Solution)	4 minute contact time with organic soil load # tablets (ppm Solution)	10 minute contact time # tablets (ppm Solution)
Canine Parvovirus	Virus (Non-Enveloped)	ATCC VR-2017	Parvovirus disease			1 per gal. (1076 ppm)
Feline Calicivirus	Virus (Non-Enveloped)	ATCC VR-782	Gastroenteritis	2 per gal. (2153 ppm)		1 per gal. (1076 ppm)
Canine Distemper Virus	Virus (Enveloped)	ATCC VR-128	Canine distemper			1 per gal. (1076 ppm)
Newcastle Disease Virus	Virus (Enveloped)	ATCC VR-180	Newcastle disease	_		1 per gal. (1076 ppm)
Pseudorabies Virus	Virus (Enveloped)	ATCC VR-135	Aujesky's disease			1 per gal. (1076 ppm)

See page 10 for complete list

Food Contact When used at 100 ppm solution Directions, BruTab 6S is an eff	ATCC and/or Strain Number	Disease/Effect	1 minute contact time # tablets (ppm Solution)	
Salmonella enterica	Bacteria	ATCC 6539	Food poisoning	1 per 10 gal. (100 ppm)
Staphylococcus aureus	Bacteria	ATCC 6538	Wound infections etc.	1 per 10 gal. (100 ppm)

3.3g Tablets



PACKAGING INFORMATION

Availability

Product No. 161021
• 200 Tablet Tub/6 (8G)

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DILUTION CHART

Tablet Size	3.3g		
Solution ppm (mg/L) Available Chlorine	Tablets	Quarts of Water	
100	1	10	
538	1	2	
1076	1	1	
2153	2	1	
4306	4	1	
5382	5	1	

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Clostridium difficile spores	Spores	ATCC 43598	Colitis		4 per quart (4306 ppm)	2 per quart (2153 ppm)
Mycobacterium bovis (TB)	Bacteria	ATCC 35743	Tuberculosis (TB)		5 per quart (5382 ppm)	
Acinetobacter baumannii	Bacteria	ATCC BAA-1709	Wound infections etc.		4 per quart (4306 ppm)	
Vancomycin Resistant Enterococcus faecalis (VRE)	Bacteria	ATCC 51575	Enteritis etc.		4 per quart (4306 ppm)	1 per quart (1076 ppm)
Escherichia coli 0157:H7	Bacteria	ATCC 35150	Food poisoning			1 per quart (1076 ppm)
Klebsiella pneumoniae	Bacteria	ATCC 4352	Pneumonia			1 per quart (1076 ppm)
Carbapenem resistant Klebsiella pneumoniae	Bacteria	ATCC BAA-1705	Pneumonia		4 per quart (4306 ppm)	
Pseudomonas aeruginosa	Bacteria	ATCC 15442	Septicemia		4 per quart (4306 ppm)	1 per quart (1076 ppm)
Salmonella enterica	Bacteria	ATCC 10708	Food poisoning		4 per quart (4306 ppm)	1 per quart (1076 ppm)
Staphylococcus aureus	Bacteria	ATCC 6538	Wound infections etc.		4 per quart (4306 ppm)	1 per quart (1076 ppm)
Staphylococcus aureus MRSA & GRSA	Bacteria	ATCC 33592	Wound infections etc.		4 per quart (4306 ppm)	1 per quart (1076 ppm)
Staphylococcus epidermis	Bacteria	ATCC 51624	Wound infections, etc.			1 per quart (1076 ppm)
Streptococcus pneumoniae	Bacteria	ATCC 6305	Pneumonia		4 per quart (4306 ppm)	

TESTING SUMMARY:

Human Microorganisms for Disinfe Virucidal, and Fungicidal		ATCC and/ or Strain Number and/ or Surrogate organism	Disease/Effect	1 minute minimum contact time with organic soil load # tablets (ppm Solution)	4 minute minimum contact time with organic soil load # tablets (ppm Solution)	10 minute minimum contact time # tablets (ppm Solution)
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Poliovirus Type 1	Virus (Non-Enveloped)	ATCC VR-1000	Polio			1 per quart (1076 ppm)
Rhinovirus (Type 14)	Virus (Non-Enveloped)	ATCC VR284	Common cold			1 per quart (1076 ppm)
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Hepatitis C Virus	Virus (Enveloped)	Bovine Viral Diarrhea Virus Strain NADL	Hepatitis C	4 per quart (4306 ppm)		
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Human Immunodeficiency Virus Type 1	Virus (Enveloped)	Strain IIIB	AIDS	4 per quart (4306 ppm)		1 per quart (1076 ppm)
Influenza Virus (H1N1)	Virus (Enveloped)	ATCC VR-99	Swine flu			1 per quart (1076ppm)
Respiratory syncytial virus	Virus (Enveloped)	ATCC VR-26	Common cold			1 per 2 quarts (538 ppm)
Aspergillus fumigatus	Fungi	ATCC 36607	Respiratory infections	4 per quart (4306 ppm)		
Candida albicans	Fungi	ATCC 10231	Thrush & Yeast Infections		4 per quart (4306 ppm)	
Trichophyton interdigitale	Fungi	ATCC 9533	Athlete's foot			1 per quart (1076 ppm)

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Feline Calicivirus	Virus (Non-Enveloped)	ATCC VR-782	Gastroenteritis	2 per quart (2153 ppm)		1 per quart (1076 ppm)
Canine Distemper Virus	Virus (Enveloped)	ATCC VR-128	Canine distemper			1 per quart (1076 ppm)
Newcastle Disease Virus	Virus (Enveloped)	ATCC VR-180	Newcastle disease			1 per quart (1076 ppm)
Pseudorabies Virus	Virus (Enveloped)	ATCC VR-135	Aujesky's disease			1 per quart (1076 ppm)

See page 10 for complete list

Food Contact When used at 100 ppm solution Directions, BruTab 6S is an eff	ATCC and/or Strain Number	Disease/Effect	1 minute contact time # tablets (ppm Solution)	
Salmonella enterica	Bacteria	ATCC 6539	Food poisoning	1 per 10 quart (100 ppm)
Staphylococcus aureus	Bacteria	ATCC 6538	Wound infections etc.	1 per 10 quart (100 ppm)

BruTabos

BruMop

Bucketless Handle Mop System

Easy to use bucketless handle mop system with 32 fl oz reservoir to use for mopping floors with BruTab 6S. Use one 13.1g tablet in 32 fl oz reservoir to prepare 4306 ppm solution. Use one 13.1g tablet with 24 fl oz water to prepare 5382 ppm solution for 4 minute *Mycobacterium bovis* (TB) claim.

<u>Availability</u>

Product No. ATWK18OR

 One orange applicator with 32 fl oz reservoir. (does not ship with a microfiber pad)

Product No. ATWR180R-CS

 18" orange microfiber flat mop (CS/12) Ergonomic end-of-handle TPR ball swivels for smooth operation

54" handle

Translucent graduated 32 fl oz dispensing bottle identifies fill level in both ounces and milliliters

Durable, ultra-light construction reduces user fatigue

16" Velcro frame





BruTab 6S Transport Pack

Ten empty containers along with a sheet of customer affixed labels for distributing tablets to different areas within a facility.

Availability

Product No. PDU102



ANIMAL PATHOGENS

When used at ppm solution listed below, applied as outlined under Animal Premises Disinfection/ Virucidal Directions, BruTab 6S is effective against the following animal pathogens with the corresponding contact time:

10 minute contact time (1076 ppm Solution)

Canine Parvovirus Newcastle Disease Virus **Pseudorabies Virus Canine Distemper Virus** Feline Calicivirus Actinobacillus pleuropneumoniae Bordetella bronchiseptica (Rhinitis) Brachyspira (Treponema/Serpulina) Gumboro disease Virus Herpes Simplex Virus Type 1 Hvodvsenteriae (Swine Dvsentery) Infectious Canine hepatitis Virus Porcine epidemic diarrhea Virus Porcine parvovirus Runting & Stunting Virus (tenosynovitis) Streptococcus uberis Teschen/Talfan disease Virus Respiratory syncytial virus (538 ppm)

1 minute contact time (ppm Solution)

Feline Calicivirus (2153 ppm) Avian influenza virus (H5N1) (4306 ppm) Bovine Viral Diarrhea Virus (4306 ppm)

NOTE: Only approved for use against Canine Parvovirus, Newcastle Disease Virus, Pseudorabies, Canine Distemper Virus and Feline Calicivirus in the State of California.

PHYSICAL & CHEMICAL SPECIFICATIONS

Active Ingredient: Sodium dichloro-s-triazinetrione	48.21%*
Working pH	6.0 +/- 0.5
Color	Clear
Odor	Slight Chlorine
OSHA GHS Rating In-Use	Non-Hazardous

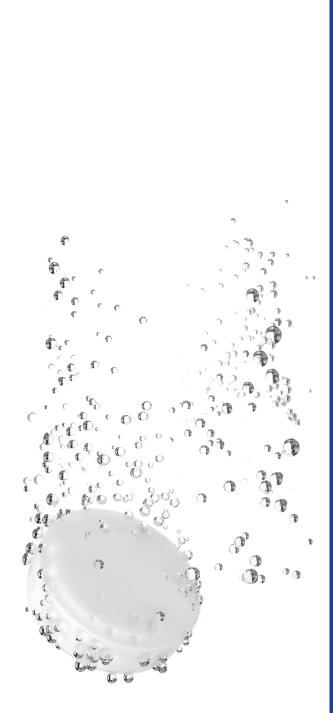
^{*} Equivalent to 31.10% active chlorine by tablet weight. Refer to dilution chart for Available Chlorine concentrations

STABILITY DATA

A stability study was conducted and found that solutions made up of strengths from 100 - 5382 ppm active chlorine, retained the required chlorine activity after storage for 3 days in a closed container at room temperature out of direct sunlight.

General Solution Preparation: Prepare a fresh solution twice weekly (every 3 days) when using closed containers (spray bottles). Prepare a fresh solution daily when using open containers (buckets) or if solution becomes diluted.





MATERIAL SUBSTRATE COMPATIBILITY

Sodium dichloro-s-triazinetrione tablets dissolved in water produce a solution of hypochlorous acid.

The following chart shows the compatibility of a variety of materials with solutions up to 5,000 mg/L of available chlorine.

Metals	Compatibility
SS 304	Α
SS 316	Α
Aluminum	В
Brass	В
Bronze	В
Carbon Steel	С
Cast iron	С
Hasteloy C®	Α
Titanium	Α

The following chart shows the compatibility of a variety of materials with solutions up to 2,000 mg/L of available chlorine.

Plastics	Compatibility	Elastomers	Compatibility
ABS	Α	Nitrile (Buna N)	Α
CPVC	Α	EPDM	Α
Hytrel [®]	Α	Hypalon [®]	Α
HDPE	Α	Kel-F®	Α
LDPE	Α	Santoprene®	Α
Noryl®	Α	Silicone	В
Polycarbonate	Α	Tygon®	Α
Polypropylene	А	Viton®	Α
PPS	А	Nonmetals	Compatibility
PTFE	Α	Carbon graphite	Α
PVC	A	Ceramic A1203	Α
PVDF	A	Ceramic magnet	А

Explanation of Ratings — Chemical Effect

- A = Excellent.
- B = Good Minor Effect, slight corrosion or discoloration.
- C = Fair Moderate Effect, OK for short term use. Not recommended for continuous use. Some pitting may occur.
- D = Severe Effect, not recommended for any use.



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Distributed by:

161-061I EPA 27 DEC 18