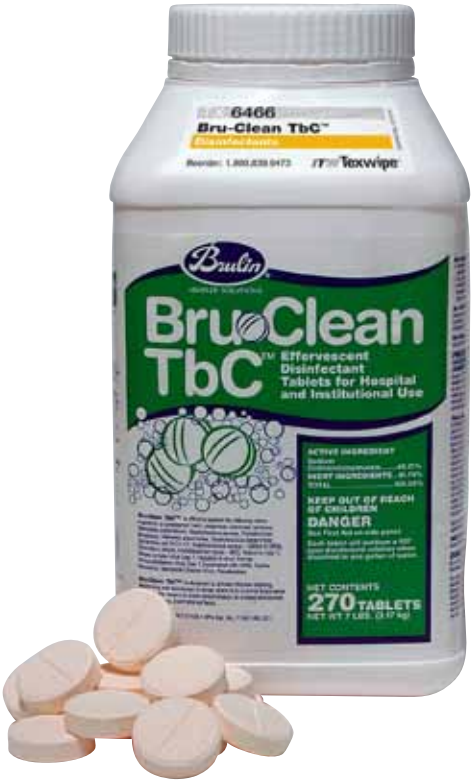
BruClean TbC™

Disinfectant Cleaner



Description

BruClean TbC™ is a premeasured tablet that, when added to one gallon of water, creates a disinfectant cleaner that is effective against a broad array of pathogens, including MRSA, E. coli and Salmonella. This product is EPA registered (71847-2-106) and is a convenient alternative to bleach.

The active ingredient, sodium dichloroisocyanurate (NaDCC), is:

- more stable than bleach (sodium hypochlorite)
- almost neutral in pH
- biodegradable

Features

- Convenient tablet form – easy to use
- Pre-scored tablet – for half strength
- Bulk packed
- 1000 ppm available chlorine for 24 hours
- EPA registered

Benefits

- Save on shipping and storage costs by purchasing lightweight, dry tablets instead of heavy, liquid bleach
- Consistent strength produced at point of use for cleaning and disinfecting hard surfaces
- Neutral pH makes it less corrosive on surfaces than liquid bleach
- Broad spectrum efficacy
- Biodegradable – safe for environment

Applications

- Cleaning and disinfecting hard surfaces, such as stainless steel
- Disinfecting all work areas – equipment, hoods, carts, isolators, floors
- Can easily replace liquid bleach in all applications

Products

TX Number	Description	Packaging
TX6466	Bru-Clean TbC™ Disinfectant Tablets	270 tablets/bottle 2 bottles/case

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BruClean TbC™

Comparison Chart

	Bleach – Sodium Hypochlorite	TX6466 – BruClean TbC™
Stability	Degrades over time	Made at point-of-use
Shelf Life	Limited shelf life	Shelf life of 2 years
Convenience	Must be stored, diluted, mixed, and filtered	Made at point-of-use
Strength	Must validate concentration, degrades over time	Concentration of 937 ppm available chlorine
pH	Alkaline – pH > 12	More neutral – pH 5-6
Corrosion	Highly corrosive on suracs	Less corrosive than bleach
Packaging/Delivery System	Gallon bottles, pails, drums	Bulk packed tablets
Hazard Classification	Corrosive, class 8 at 12% strength	Not classified as hazardous

Hypochlorous acid (HOCl) is responsible for the cleaning activity of both sodium hypochlorite (bleach) and NaDCC.

Sodium Hypochlorite – Bleach

$NaOCl \rightarrow Na^+ + OCl^-$

$OCl^- + H^+ \rightleftharpoons HOCl$ Hypochlorous Acid

Sodium dichloroisocyanurate – NaDCC

Dry tablet, when constituted with water (H_2O)

$[NaCl_2(NCO)_3] + H_2O \rightarrow 2\ HOCl + NaH_2(NCO)_3$

More HOCl is released from NaDCC at pH 5-6 than from sodium hypochlorite (liquid bleach) at pH 9.5

Biocidal Qualification Testing		
A.O.A.C. Use-Dilution Confirmation Method		
Organism	NaDCC (1000 ppm) Exposure Time (min.)	Number of Growths
Enterococcus faecalis VRE	10	0
Escherichia coli	10	0
Hepatitis A virus	10	0
Herpes Simplex Virus Type 1	10	0
Human Immunodeficiency Virus Type 1	10	0
Klebsiella pneumoniae	10	0
Polio Virus Type 1	10	0
Pseudomonas aeruginosa	10	0
Pseudorabies Virus	10	0
Salmonella choleraesuis	10	0
Staphylococcus aureus (MRSA & GRSA)	10	0
Staphylococcus epidermidis	10	0
Trichophyton mentagrophytes	10	0