



EARTHSAFE™
CHEMICAL ALTERNATIVES

Chemistry:	NaDCC		Sodium Hypochlorite (Bleach)		PAA (Peracetic Acid)	
Product:	PurTabs					
Active Ingredient	48.21% sodium di-chloro-s-triazinetriene		8% sodium hypochlorite		27.5% hydrogen peroxide 5.8% peroxyacetic acid 8% acetic acid	
Active in diluted product	4309ppm		9000ppm		6445ppm hydrogen peroxide	
Sporicidal Contact Time	4 minutes		5 minutes		3 minutes	
Bactericidal Contact Time	4 minutes		10 minutes		3 minutes	
Non-Enveloped Virucidal Contact Time	1 minute		5 minutes		10 minutes	
Residual Activity	Yes		No		No	
Tested Using EPA Standards for Efficacy with a Soil Load	Yes		Yes		No	
pH	6.5 to 7.0 (neutral)		12 to 13 (highly alkaline)		2.0 to 3.0 (acidic)	
Compatibility with wipers and mops:	Yes		Yes		No – active destroys material	
Cellulose:	Yes		Yes		No – active destroys material	
Cotton:	Yes		Yes		Yes	
Microfiber:						
Format:	Concentrate	In-Use Dilution	Concentrate	In-Use Dilution	Concentrate	In-Use Dilution
HMIS Rating	1/0/0	1/0/0	Not available	Not available	3/1/1	1/0/0
PPE Required	Gloves	Gloves, Eye Protection	Gloves, Eye Protection, Face Mask, Impervious Gown	Gloves, Eye Protection, Face Mask, Impervious Gown	Chemical resistant coveralls, footwear, face shield, gloves, apron, respirator mask	Gloves, Eye Protection, Face Mask, Impervious Gown
Non-Irritating to Eyes	No	Yes	No	No	No	No
Non-Irritating to Skin	No	Yes	No	No	No	No
Lowest EPA Inhalation Toxicity Rating?	Yes	Yes	Yes	Yes	No	Yes
Odor	None (tablet)	Very light chlorine	Strong chlorine	Strong chlorine	Pungent vinegar	Pungent vinegar



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Incompatible materials	Carbon Steel Cast Iron	Non Stainless Steel, Aluminum Silver, Chipped Enamel Marble, Vinyl Fabrics	Non Stainless Steel, Aluminum Silver, Chipped Enamel, Marble, Carbon Steel, Cast Iron, Granite Acrylic, Linoleum, Leather, Natural Rubber
Ease of Mixing	Very Easy Tablet formulation eliminates splashing and vapor. Tablet is self-measuring, so no additional equipment is required. Minimal PPE required.	Difficult Liquid formulation can splash and aerosol. Measuring device needed. Moderate PPE required.	Very Difficult Special hazmat training required. Staff must don full-body chemical-resistant PPE. Special dilution equipment required, which demands routine maintenance. Liquid formulation can splash and aerosol. Ventilation required.
Mixing Hazards	None	Spilling and splashing of concentrate: destroys fabric, carpet, harmful to eyes and skin Aerosoling: harmful vapor	Spilling and splashing of concentrate: harmful to eyes and skin, drying on fabric or combustible material can cause fire Aerosoling: harmful vapor
Ability To Ensure Accurate Dilution	Yes. Tablets are premeasured per gallon	No. User must measure liquid in a measuring device	Yes, with special dilution equipment in good working order
Shelf Life:			
Concentrate:	3 years	1.5 years	1.2 years
In-Use Dilution:	7 days	1 day	1 day
Space Required	Low Compact tubs of tablets	Moderate Jugs of liquid, measuring cup, PPE	High Special equipment, jugs of liquid, maximum PPE, ventilation
Maintenance	None	None	Routine equipment checks and parts replacement due to corrosion from product





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Transportation	Common carrier, including air	Common carrier, Cannot ship via air	Hazardous substance shipping, cannot ship via air
Transportation Costs	Very Low, no liquid is shipped	High, 1 gallon of liquid shipped for 5 gallons of disinfectant	Moderate, gallon of liquid shipped for 40 gallons of disinfectant
Storage Limitations	None	None	1000 lb limit in mixed use warehouse
Disposal	Rinse container before recycling.	Must flush drains before and after use. Container must be pressure rinsed before discarding, and is not recyclable.	Triple rinse container before recycling, but SDS states to “avoid disposal” of both concentrate and in-use dilution liquid.
Environmental Toxicity	None. Product is biodegradable.	Toxic to fish and aquatic life.	Toxic to fish and aquatic life. SDS states to avoid disposal of concentrate and diluted liquid.
Packaging Disposal	Recyclable	Not Recyclable	Recyclable



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