



Dechlorination Made Easy



Dechlorination Products & Equipment

Integra Chemical's technical support staff can provide assistance in addressing specific dechlorination requirements. Dechlorination may be as simple as placing tablets in a flow stream or delivering a mixed solution through a metering pump from a day tank.



800.322.6646

For Technical Support on Dechlorination (800) 322-6646 / Info@Vita-D-Chlor.com

www.Vita-D-Chlor.com













Vita-D-Chlor Dechlorination Chemicals and Systems

As a leader in the industry, Integra Chemical's Vita-D-Chlor provides safe and effective dechlorination. A number of dechlorination systems are available to implement Vita-D-Chlor effectively and to safely and instantaneously remove chlorine without causing environmental problems. Key benefits are enhanced environmental protection, operator safety and public acceptance.

Tablets and Slo-Tabs

Vita-D-Chlor Tablets are the only tablets that utilize Vitamin C chemistry. They are 100% soluble and 100% organic. Unlike tablets made with sulfur compounds, they contain no ingredients that could be toxic to fish and other aquatic life.

One Vita-D-Chlor Tablet is capable of neutralizing approximately 8,500 gallons of water with 1 ppm chlorine. Tablets are well suited for chlorine neutralization in hydrant flushes as well as line flushes of both municipal water and super-chlorinated water. They are fast-dissolving and can accommodate a high volume of water over a short period of time.

Vita-D-Chlor Tablets are commonly utilized with dechorination/diffuser equipment as well as with simple tools such as socks, bags or mats. These tools make dechlorination while using tablets very simple, safe and practical for field use.

NEW Vita-D-Chlor Slo-Tabs utilize the same safe Vitamin C chemistry as our original Vita-D-Chlor Tablets. Slo-Tabs dissolve at a rate which is 7 to 10 times slower than the regular tablets, making them a viable option for applications that require longer periods between tablet changes, such as auto flushing units.



US EPA Water Quality Criteria For Total Residual Chlorine (TRC)

Acute Toxicity Criterion for receiving streams

0.019 mg/L (ppm)

Chronic Toxicity Criterion for receiving streams

0.011 mg/L (ppm)

Canadian Environmental Quality Guidelines

0.019 mg/L (ppm) 1987 proposed Water Quality Criterion for receiving streams

AWWA Standard C655-09

(under II.A US Regulations, last paragraph of subsection 1.) "Chlorine discharge limits in water releases into receiving streams and wetlands shall not exceed 0.01 mg/L (or a more stringent limit)."

Granular and Neutral

Vita-D-Chlor is the only Ascorbic Acid (Vitamin C) with NSF certification for dechlorinating water. Vita-D-Chlor Neutral is the only Sodium Ascorbate with NSF certification for dechlorinating water. Vita-D-Chlor and Vita-D-Chlor Neutral are both 100% organic, completely soluble, and provide a safe, rapid and complete method of dechlorination. These products completely neutralize both chlorine and chloramines.

Vita-D-Chlor is a more environmentally conscious method of dechlorination than traditional sulfur-based chemicals. Unlike sulfur-based compounds, Vita-D-Chlor is not toxic to humans or animals nor does it deplete oxygen in treated water. In fact, it is made with an essential vitamin for humans and many animals, which is known to boost the immune system in fish.

Vita-D-Chlor Neutral has all of the same dechorination benefits as Vita-D-Chlor, plus a few more. It is over four times more soluble, which allows it to dissolve more quickly and easily. Vita-D-Chlor Neutral can be used to make a more highly concentrated feed solution than original Vita-D-Chlor. Additionally, Vita-D-Chlor Neutral will not adversely lower the pH of waters being treated, even when used in high concentrations.

Applications

Vita-D-Chlor provides a solution to a variety of dechlorination requirements.

- Hydrant flushing
- Water main installations and maintenance
- · Reservoir overflow
- Fire flow testing
- Filter backwash
- Permit compliance
- Reservoir and tank draining and cleaning
- Dewatering
- Well cleaning
- Highly chlorinated water release to wastewater treatment plant

Vita-D-Chlor Vita-D-Chlor TABLET SLO-TAB SPECIFICATIONS: SPECIFICATIONS: Active ingredient | Ascorbic Acid Active ingredient Ascorbic Acid 1 Slo-Tab neutralizes 7,500 Activity 1 tablet neutralizes 8,500 Activity Quantity needed to Quantity needed to gallons with 1ppm chlorine gallons with 1ppm chlorine neutralize 1ppm chlorine neutralize 1ppm chlorine Diameter 2 5/8 2 5/8" Diameter Thickness 1" Thickness Weight 115g (4 oz.) Weight 115g (4 oz.) White tablet with citrus odor Appearance White tablet with citrus odor Appearance Packaging Plastic screw cap bottle and Packaging Plastic screw cap bottle and resealable plastic pail resealable plastic pail (airtight) (airtight) Shelf life Up to 3 years Shelf life Up to 3 years 6, 20, 40, 140 tablets 6, 20, 40, 140 tablets Sizes





Quality NSF Certified (Dechlorination and antioxidant chemical) Meets pharmaceutical industry standards for purity (USP)

kaging Plastic screw cap bottle

Packaging Plastic screw cap bottle and resealable plastic pail (airtight)

Shelf life Up to 3 years

Sizes 2.5 kg (5.5 lbs.), 12 kg (26.5 lbs.), 25 kg (55 lbs.)

Vita-D-Chlor NEUTRAL SPECIFICATIONS:

Active ingredient
Activity
Quantity needed to
neutralize 1ppm chlorine

Form

Packaging

Easy dissolving

1 gram per 100 gallons

22 lbs. per 1 million gallons

Sodium Ascorbate

fine granular

NSF Certified

(Dechlorination

(Dechlorination and antioxidant chemical) Meets pharmaceutical industry standards for purity (USP)

Plastic screw cap bottle and resealable plastic pail (airtight)

Shelf life Up to 3 years

Sizes 2.5 kg (5.5 lbs.), 12 kg (26.5 lbs.), 25 kg (55 lbs.)





deChlorinator

CHLORINE LI	EVELS				
0-200 pp	om				
FLUSH RATE					
175-900	gpm				
SETUP TIME					
2-7 minu	tes				
		19			

Benefits/Features

- ▶ Dechlorinates full-range of chlorine levels
- ▶ Utilizes NSF granular material for lowestcost operations
- ▶ Durable construction, small, compact design
- ▶ Dechlorinate or chlorinate with one unit
- Sample port for untreated water sampling and feed solution makeup
- ► Connects directly to hydrant or hose extension

Procedure

- 1. Setup the deChlorinator on the hydrant (diffuser should be used for safety)
- 2. Mix suitable quantity of Vita-D-Chlor into a pail of water (measurement chart supplied)
- 3. Set needle valve to setting listed on the measurement chart
- 4. Place feed tube into the pail and begin flush
- 5. Adjust needle valve for greatest efficiency and test for complete dechlorination

Benefits/Features

- Simple, low cost
- Dissipates/diffuses discharge water
- Utilizes tablets for simplified operations
- Tablets are contained within the device
- Traps debris in the discharge
- Accepts pitot for flow measurement
- Connects directly to hydrant or hose extension
- No pre-flush solution mixing
- No connections to an external chemical source are required
- Available in steel or lightweight aluminum

Procedure (Treatment up to 5ppm chlorine)

- 1. Setup the LPD on the hydrant
- 2. Put stainless steel Vita-D-Chlor Tablet Screen in the tablet chamber
- 3. Place 4 Vita-D-Chlor Tablets into the Tablet Screen
- 4. Flush and test for complete dechlorination

LPD-250

CHLORINE LEVELS

OHEORINE ELVELO			
	: :	:	
0-10 ppm		 	
U = IU ppm	: :	 	
o io ppiii			
	: :	 	
FLUSH RATE			
FLUOR RAIL			
200-1,250 gpm			
ZUU- 1.ZOU UDIII			
,,			
SETUP TIME			
	1 1		
1-3 minutes		 	
1-3 IIIIIIules	- 1	- 1	- 1
	: :	 	

Equipment Options

- · Vita-D-Chlor Screen
- Pitot Kit
- Hitch Mount
- Extension Hose



Hydro-Hitch, Aqua-D-Chlor

CHI ORINE I EVELS

0-50 ppm		
FLUSH RATE		
200-1,500+ gpm		
SETUP TIME		:
1-3 minutes		
		i

Benefits/Features

- Simple, low cost and economical
- ▶ Accepts both 2.5" and 5" Storz connections
- Allows flushing from hydrant side outlet or steamer port.
- Built in hitch mount
- Lightweight aluminum construction with powder coat finish
- Adjustable tablet dissolve rates
- Accepts pitot for flow measurement

Procedure (Treatment up to 3ppm chlorine)

- 1. Set connection hose between hydrant and Hydro-Hitch
- 2. Place tablet screen in the Agua-D-Chlor unit
- 3. Place required amount of Vita-D-Chlor tablets in the screen
- 4. Flush and test for complete dechlorination

Benefits/Features

- Dechlorinate while flow-testing or flushing
- Minimal friction loss
- Does not stress hydrant nozzles
- Available in 2.5," 4" and 4.5" models
- Durable construction
- Small, compact design

Procedure (Treatment up to 3ppm chlorine)

- 1. Setup the Dechlor Demon to hydrant (Hose Monster diffuser should be used for safety)
- 2. Add Vita-D-Chlor Tablets to mixing tank
- 3. Fill tank with water and connect to Dechlor Demon
- 4. Open ball-valve halfway
- 5. Begin flush and adjust ball-valves for greatest efficiency and test for complete dechlorination

Dechlor Demon

CUI ODINE I EVEL C

CHLORINE LEVELS	
0-50 ppm	
FLUSH RATE	
150-900 gpm	
SETUP TIME	
2-7 minutes	



Bazooka

CHLORINE LEVELS 0-25 ppm **FLUSH RATE** 200-785 qpm SETUP TIME 1-5 minutes

Benefits/Features

- Accurate control of chemical usage with rotameter rate valve
- ▶ Liquid Feed Adaptor available to dechlorinate up to chlorine level of 200 ppm
- Lightweight, durable construction
- Reasonable price
- Small, compact design

Procedure (Treatment up to 3ppm chlorine)

- 1. Setup the Bazooka on the hydrant (diffuser should be used for safety)
- 2. Place 1 Vita-D-Chlor Tablet into the tablet chamber
- 3. Set rotameter at 1 gpm and begin flush
- 4. Adjust rotameter for greatest efficiency and test for complete dechlorination

Taby Mat

The Vita-D-Chlor Taby Mat offers a simple solution to dechlorinate water from a water main break or any other unexpected water release. It also offers a simple way to dechlorinate flush water without having to set up specialized equipment.

Taby Mat holds up to three tablets. The mat is constructed of durable nylon mesh "silt-fabric" for long life. Use a rope or cord through the grommet, tied to a heavy object to hold mat in place in the flow stream. A stake or long nail can also be used to hold the mat in place while allowing the water to flow over the tablets.





Tablet Sock

The Vita-D-Chlor Tablet Sock was created as a low-cost, disposable tool to utilize Vita-D-Chlor Tablets for a variety of dechlorination situations. Under most circumstances when dechlorinating potable water at approximately 1 ppm chlorine, three tablets in the sock will be enough to neutralize 25,000 gallons. Sock is constructed from filter fabric and is available in either fine or coarse. The fine fabric reduces or slows the dissolve time of tablets. The coarse fabric allows faster tablet dissolve time and is intended for use with high flow rates or higher chlorine levels.



SenSafe® Test Strips

Free Chlorine test strips combine a wide range of detection with a patented free chlorine indicator. Free chlorine is perfect for determining whether or not you have the correct amount of sanitizer present and for determination of the correct amount of Vita-D-Chlor necessary for dechlorination of potable and mildly chlorinated water.

Free Chlorine Test Strips are available in bottles of 50.

FREE CHLORINE 0-6 ppm

Graduated at 0, 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.2, 1.5 2. 2.6. 4 & 6 ppm (mg/L)

FREE CHLORINE 0-25 ppm

Graduated at 0, 0.25, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 15, 20 & 25ppm (mg/L)

FREE CHLORINE 0-120 ppm

Graduated at 1, 5, 10, 20, 40, 80 & 120 ppm (mg/L)

FREE CHLORINE 0-750 ppm

Graduated at 0, 25, 50, 100, 200, 300, 400, 500 & 750 ppm (ma/L)

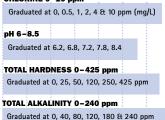


5-Way Test Strips are available in bottles of 50.

method, these strips offer accurate and

reliable results in less than 30 seconds.

SENSITIVITY; FREE AND TOTAL CHLORINE 0-10 ppm



www.Vita-D-Chlor.com

Visit www.Vita-D-Chlor.com for additional information and technical resources that can be used when planning for a variety of dechlorination projects. Be sure to check out the on-line calculators for help with determining the quantity of Vita-D-Chlor required for pipeline and reservoir dechlorination projects. A calculator for venturi/injection dechlorination is also provided.

If you require further information or have additional questions, simply call us at 800.322.6646, or visit www.Vita-D-Chlor.com

North America municipal users:

Seattle Philadelphia Tacoma Atlanta Portland Anchorage San Francisco Tucson San Jose Phoenix Los Angeles Kelowna Dallas Raleigh Denver Durham Ft. Worth Ottawa Long Beach Ann Arbor Salt Lake City



Use Calculations Biograms of Vita S-Chie

Formulas for determining the amount of Vita-D Chlor needed for your dechlorination project are provided. Three working calculators for pipeline, reservoir, and injection system applications are also available.

Up-to-date

information

on equipment

dechlorination

available for field



VITA-D-CHLOR





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VITA-D-CHLOR™
Vitamin C based chemistry for dechlorination

Dechlorination Made Easy

materials, and requirements for the dechlorination of chlorinated and chloraminated water discharges. 'Field Dechlorination" is now effective. It covers procedures, NEW AWWA Standard #C655-09

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