

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 dechlorination/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)."



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

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 dechlorination 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.

Vita-D-Chlor TABLET SPECIFICATIONS:

Active ingredient	Ascorbic Acid
Activity <i>Quantity needed to neutralize 1ppm chlorine</i>	1 tablet neutralizes 8,500 gallons with 1ppm chlorine
Diameter	2 5/8"
Thickness	1"
Weight	115g (4 oz.)
Appearance	White tablet with citrus odor
Packaging	Plastic screw cap bottle and resealable plastic pail (airtight)
Shelf life	Up to 3 years
Sizes	6, 20, 40, 140 tablets

Vita-D-Chlor SLO-TAB SPECIFICATIONS:

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

Vita-D-Chlor GRANULAR SPECIFICATIONS:

Active ingredient	Ascorbic Acid
Activity <i>Quantity needed to neutralize 1ppm chlorine</i>	1 gram per 100 gallons 22 lbs. per 1 million gallons
Form	Easy dissolving fine granular
Quality	NSF Certified (Dechlorination and antioxidant chemical) Meets pharmaceutical industry standards for purity (USP)
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	Sodium Ascorbate
Activity <i>Quantity needed to neutralize 1ppm chlorine</i>	1 gram per 100 gallons 22 lbs. per 1 million gallons
Form	Easy dissolving fine granular
Quality	NSF Certified (Dechlorination and antioxidant chemical) Meets pharmaceutical industry standards for purity (USP)
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.)

