

Safe DChlor T Series

Sodium thiosulfate, CAS No. 7772-98-7, Non-Sterile



Active Ingredient: sodium thiosulfate, CAS No. 7772-98-7

Inert Ingredients (Excipients): sodium chloride, sodium bicarbonate

Intended Use:

Dechlorination is the process of removing residual chlorine (or chloramines) from disinfected water. Treatment of chlorinated water can be accomplished by many methods. Tablets offer a convenient and functional alternative to sloppy and unstable liquids. Tablets are precisely formulated to contain exact quantities of neutralizers to match specific applications. Dechlorination agents are added to environmental collection samples to avoid the possibility of reactions that may occur between free chlorine and contaminants present in test samples. The presence of dechlorination agents will arrest chlorine reactions that may subsequently interfere with analysis.

Reactions:

Sodium thiosulfate will function as a dechlorination or reducing agent when mixed with chlorine-containing water, sodium thiosulfate reacts with the chlorine according to the following equation;



Sodium thiosulfate further reacts with hydrochloric acid (produced in the previous reaction) to form breakdown products such as salt, water and sulfur;



Treating Samples for Residual Chlorine:

Samples subject to chlorine interference must be checked for the presence of chlorine and treated with sodium thiosulfate prior to chemical preservation. Samples that may be affected include coliforms, inorganic phenols, ammonia nitrogen, total Kjeldahl nitrogen and select samples for organic analysis.

If residual chlorine is present, treat sample with 10mg sodium thiosulfate for every 500 ml of sample collected. This treatment should be sufficient to neutralize approximately 10mg/L residual chlorine. Note, the dose required will fluctuate based on the pH of the sample. The sample source may be checked with potassium iodide starch paper test strips to document the presence or absence of chlorine.

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Product selection: Sodium thiosulfate tablets are available in three strengths (10mg, 20mg & 30mg) and designed for collection volumes between 125ml and 1,500ml.

Safe DChlor	T-10	T-20	T-30
Tablet size (diameter):	3/16"	3/16"	3/16"
Sodium thiosulfate content, mg/tablet:	10mg	20mg	30mg
Collection volume, ml:	Up to 500 ml	Up to 1000 ml	Up to 1500 ml

Packaging: Safe DChlor T Series tablets are packaged in 500 and 5,000 count bottles. Contact customer service for bulk requirements.

Storage & Handling: Store between 5°C and 25°C, Keep in a tightly closed container stored in a cool dry area. Avoid excessive heat and humidity. Replace cap when not in use.

Stability: Stable under ordinary conditions of use.

Long Term Stability: Shelf life studies indicate that the product is stable for more than three years when stored under the recommended conditions. Check product label for expiration date. Listed below is a typical storage stability profile of Safe DChlor T10 after aging three years at ambient temperature

Storage period	Initial	1 Year	5 Years
Sodium thiosulfate content, mg/tablet (\pm 3%)	12.3	11.4	10.2

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References: 40 CFR Part 136.3
Standard Methods for the Examination of Water and Wastewater, 18th Edition

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