CAPTOR®
FOR WATER TREATMENT

MOLECULES ON THE MOVE

THE PREFERRED SOLUTION FOR THE POTABLE WATER AND WASTEWATER REATMENT INDUSTRIES

Captor (calcium thiosulfate solution) is the preferred water treatment solution for the potable water and wastewater treatment industries.

Non-toxic, non-hazardous, colorless and nearly odorless, Captor is certified in accordance with the NSF/ANSI Standard 60 for drinking water applications.

Water and wastewater plant operators choose Captor because tank and line heating is not needed in most situations, and there is little to no off-gassing which prevents pollution, excess corrosion, injury and eliminates vapor locking. Also, Captor is more efficient and requires lower dosing rates than other chemicals for ozone quenching.

- Maintains a low freezing point
- Lower crystallization point
- Applicator friendly
- Carrier water not required
- Environmentally friendly

DOSAGE RATES FOR OZONE QUENCHING

Gallons of Captor to Use

Gallons of Water to Treat	Ozone Residual – ppm									
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
100,000	0.03	0.05	0.08	0.11	0.13	0.16	0.19	0.21	0.24	0.26
200,000	0.05	0.11	0.16	0.21	0.26	0.32	0.37	0.42	0.48	0.53
300,000	0.08	0.16	0.24	0.32	0.40	0.48	0.56	0.64	0.71	0.79
500,000	0.13	0.26	0.40	0.53	0.66	0.79	0.93	1.06	1.19	1.32
1,000,000	0.26	0.53	0.79	1.06	1.32	1.59	1.85	2.12	2.38	2.65

These rates are approximate and may be affected by factors such as temperature, reaction time and dissolved compounds in water which may react with Captor.

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CAPTOR® APPLICATION GUIDELINES FOR DECHLORINATION

1. PROCESS FLOW CONTROL: A simple feed pump and chlorine monitoring system is required for dechlorination with Captor. When using Sodium Bisulfite, we suggest you flush out the existing lines, equipment and storage tank thoroughly prior to any use of Captor.

2. DOSAGE RATIO: Municipalities generally use a multiplier of about 1.48 pounds of Captor per pound of chlorine. This ratio has proven to be effective year-round. (Please refer to our dosage chart below for more details).

3. CHEMICAL MIXING: Building adequate time for mixing into the treatment process is important for cost-effective dechlorination, as it can significantly reduce the amount of Captor required for treatment.

4. CONTACT TIME: While Captor reduces chlorine rapidly, it may still require a few minutes to bring lingering chlorine levels to zero residual. Please allow adequate lag time for the treated effluent to travel from the dechlorination zone to the final chlorine residual sampling point.

5. MAINTENANCE: We recommend flushing and disinfecting supply lines and day tanks at least once per year to avoid potential plugging and/or product contamination.

These guidelines are the basics for using Captor in dechlorination, and should be followed carefully. Please note - general guidelines are not always sufficient to ensure both effective and efficient treatment. If you do not achieve the desired results while using Captor, please contact moleko. We will gladly review your application and method, and assist you in maximizing both the efficiency and effectiveness of treatment.

DOSAGE RATES FOR DECHLORINATION

Gallons of Captor Per Million Gallons of Water

Parts per Million Chlorine

pH	1	2	3	4	5	6	7	8	9	10
6.5	5.4	10.9	16.3	21.7	27.1	32.5	37.9	43.4	48.8	54.2
6.8	5.3	10.5	15.8	21.0	26.3	31.5	36.8	42.0	47.1	52.5
7.0	5.1	10.3	15.4	20.6	25.7	30.8	36.0	41.1	46.2	51.4
7.2	5.0	10.0	15.1	20.1	25.1	30.1	35.2	40.2	45.2	50.2
7.4	4.9	9.8	14.7	19.6	24.5	29.4	34.3	39.2	44.2	49.1
7.6	4.8	9.6	14.4	19.2	24.0	28.7	33.5	38.3	43.1	47.9
7.8	4.7	9.3	14.0	18.7	23.4	28.0	32.7	37.4	42.1	46.7
8.0	4.6	9.1	13.7	18.2	22.8	27.3	31.9	36.5	41.0	45.6
8.5	4.3	8.4	12.8	17.1	21.3	25.6	29.9	34.1	38.4	42.7
9.0	4.0	8.0	11.9	15.9	19.9	23.9	27.8	31.8	35.8	39.8
9.5	3.7	7.4	11.1	14.8	18.4	22.1	25.8	29.5	33.2	36.9
10.0	3.4	6.8	10.2	13.6	17.0	20.4	23.8	27.2	30.6	34.0

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