

Technical Bulletin

Chlor 12

Liquid Chlorine Beach

Product Description:

CHLOR 12 is a 12.5% Commercial Grade Sodium Hypochlorite, greenish yellow liquid and is a strong oxidising agent exhibiting a strong chlorine odour. Sodium Hypochlorite decomposes in the presence of heat & light and contains a small quantity of caustic soda. It will release chlorine gas when mixed with acids. For more detail on Sodium Hypochlorite decomposition refer to the chart attached to this document.

- Textile Manufacture
- Commercial & Industrial Laundries
- Industrial Laundries
- Hotel and Motel In House Laundries
- Convalescent Homes In House Laundries
- Dairy Farm Sanitising
- Food Processing & Manufacture

Application:

Laundry Use

For laundry work the following may be used as a general guide.

A stock solution of bleach should be prepared to give a 1-2% available chlorine level.

Best results will be obtained by bleaching in the final rinse using a medium dip at 60°C for seven minutes, but satisfactory results will also be obtained by bleaching in the wash. However, the wash temperature should not exceed 65°C or fabric damage is likely.

Dairy Industry - Extract from AS 1087-1991

Extract E2 - Solution containing 12.5% should not be used if more than 4 months have elapsed since date of analysis: If more than 3 months have elapsed-increase solutions by a factor of 2 so as to maintain germicidal activity: Since heat accentuates decomposition-use at ambient temperatures: Sanitising should be done not more than 30 minutes prior to plant use.

CHLOR 12 in the concentrate form is a corrosive agent to skin and clothing. In the case of contact, remove contaminated clothing and thoroughly wash the skin with fresh water.

DO NOT MIX CHLOR 12 with acids or acidic detergents as toxic vapours will be emitted. As with other chlorine bleaches CHLOR 12 should not be used on POLYESTER as chlorine has very little impact on stain removal from Polyester fabrics. Bleaching of these items should be carried out with "OXYGENE" oxygen release bleach.

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CHLORINE RESIDUAL CHART

TABLE 6

Residual available chlorine calculated from equation 1,2,3 and 4,
assuming a starting value of 13% Av Cl² v/v.

Weeks Storage	TEMPERATURE ° C									
	10	15	20	22	24	26	28	30	35	40
0.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
1.0	12.9	12.8	12.6	12.5	12.4	12.3	12.1	11.9	11.1	9.9
2.0	12.8	12.6	12.3	12.1	11.9	11.6	11.3	11.0	9.7	8.0
3.0	12.7	12.4	12.0	11.7	11.4	11.1	10.6	10.2	8.6	6.7
4.0	12.6	12.2	11.7	11.4	11.0	10.5	10.0	9.5	7.7	5.8
5.0	12.5	12.0	11.4	11.0	10.6	10.1	9.5	8.9	7.0	5.1
6.0	12.4	11.8	11.1	10.7	10.2	9.6	9.0	8.4	6.4	4.5
7.0	12.3	11.6	10.8	10.4	9.8	9.2	8.6	7.9	5.9	4.1
8.0	12.2	11.4	10.6	10.1	9.5	8.9	8.2	7.5	5.5	3.7
9.0	12.1	11.3	10.3	9.8	9.2	8.5	7.8	7.1	5.1	3.4
10.0	12.0	11.1	10.1	9.5	8.9	8.2	7.5	6.8	4.8	3.2
12.0	11.8	10.8	9.7	9.1	8.4	7.7	6.9	6.2	4.2	2.7
14.0	11.6	10.5	9.3	8.6	7.9	7.2	6.4	5.7	3.8	2.4
16.0	11.4	10.2	8.9	8.2	7.5	6.7	6.0	5.3	3.5	2.2
18.0	11.3	9.9	8.6	7.9	7.1	6.3	5.6	4.9	3.2	2.0
20.0	11.1	9.7	8.3	7.5	6.8	6.0	5.2	4.6	2.9	1.8
25.0	10.7	9.1	7.6	6.8	6.0	5.3	4.6	3.9	2.5	1.5
30.0	10.3	8.6	7.0	6.2	5.5	4.7	4.0	3.5	2.1	1.3
35.0	10.0	8.1	6.5	5.7	5.0	4.3	3.6	3.1	1.9	1.1
40.0	9.7	7.7	6.1	5.3	4.6	3.9	3.3	2.8	1.7	1.0
45.0	9.4	7.3	5.7	4.9	4.2	3.6	3.0	2.5	1.5	0.9
50.0	9.1	7.0	5.4	4.6	4.0	3.3	2.8	2.3	1.4	0.8

Food Safety Statement/Fitness For Purpose:

With regard to the use of this product as a cleaner and / or sanitiser that may have incidental contact with food:

- 1) The raw materials / ingredients of this product are permitted as 'processing aids' as listed under clause 12 of the Food Standard Code 1.3.3 (Food Standards Australia New Zealand FSANZ) or
- 2) Are Generally Regarded As Safe (GRAS) according to the US Food and Drug Administration (FDA) or are recognised in the US Code of Federal Regulations (CFR) Title 21 part 178 as indirect food additives.
- 3) An FFP - Fit For Purpose Statement is available for this product when used in an export meat facility.

SHELF LIFE: As a quality assured manufacturer, Castle Chemicals has a stringent Quality assurance programme. As part of this regime, the label on this product shows a batch number and date of manufacture. This product has a shelf life of 6 months from the label printed date of manufacture. This information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Castle Chemicals assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of material.