PRODUCT INFORMATION CHLORFOAM PLUS

CAUSTIC CHLORINATED FOAM

DESCRIPTION

Chlorfoam Plus contains Caustic Soda (NaOH), Sodium Hypochlorite, foaming agents and a blend of sequestering agents and surfactants to inhibit scale formation and aid wetting, emulsification and foam stability.

Chlorfoam Plus is formulated to be high foaming. It is designed primarily for applications in Breweries, Beverage, Dairies and Food Processing plants. Chlorfoam Plus is also suitable for use in other high care industries.

The combination of high alkalinity and chlorination in Chlorfoam Plus gives excellent removal and suspension of fats, protein, vegetable and fruit staining. It is also very useful for brightening Stainless Steel.

Chlorfoam Plus is not suitable for use on Aluminium or galvanised surfaces.

USE INSTRUCTIONS

Chlorfoam Plus is ideally applied as foam either by high pressure or air induced systems.

In use concentrations of Chlorfoam Plus are application dependent and should be established during trials. A typical 5% v/v solution gives approximately 0.39% w/v causticity (0.39% w/v NaOH) and up to 2500 ppm of available Chlorine.

Cleaning temperatures should be optimised during trials. However, it is not advisable to use chlorinated products above 50°C.

Chlorfoam Plus is not suitable for direct food contact.

The following are typical example applications, users should refer to Cleaning Instruction Cards for specific guidance. Other applications should be discussed with your Holchem Consultant.

Foam Cleaning. Before applying foam detergents it is advisable to remove gross debris then pre-rinse surfaces with water. In typical applications Chlorfoam Plus is then applied at typically 3% to 5% v/v. However, if Chlorfoam Plus is used at low concentrations, foam quality will be poor leading to short contact times; also there will be insufficient caustic and hypochlorite available for the effective break up of soiling. Once applied Chlorfoam Plus should be left on surfaces for approximately 20 minutes before being rinsed away with water. For areas of very heavy soiling, gentle padding of the foam prior to rinsing may be necessary. To reduce the opportunity for corrosion the temperature should be restricted to 50°C maximum.

CAUTION: When using/rinsing Chlorfoam Plus, it is essential that no acidic products are present in the area, drain, or being flushed to a common drain. Contact with acidic products will release Toxic Chlorine Gas.

NOTE: It is essential to fully rinse chlorinated foams away. Failure to do this can result in corrosion to metal components.

Hand Application. In conjunction with soak baths or utensil sinks, Chlorfoam Plus can be used for the hand padding of small items. In these applications foam generation is less important, also long soak times combined with the mechanical action of scrubbing means that lower concentrations of caustic and hypochlorite are required, therefore in use concentrations are lower than for foam cleaning and are typically in the region of 0.5% to 2% v/v. The use of hot water will aid the removal of soil, but it is not advisable to exceed 45°C (gloves must be worn).

Floor Cleaning. Chlorfoam Plus can be used for floor cleaning; it is effective for the removal of a range of organic based stains (blood, food dyes, vegetable/fruit colourings etc) and can be effective for the removal of black tyre marks. For floor cleaning applications Chlorfoam Plus is ideally applied at 1% to 2% v/v through a floor scrubber dryer. At this concentration foam production will be limited. However, it is essential to check that the floor scrubber is not manufactured from soft metals such as Aluminium; these are not compatible with caustic.

Holchem Laboratories Ltd
Gateway House, Pilsworth Road,
Pilsworth Industrial Estate, Bury, Lancashire. BL9 8RD
T: 01706 222288 E: info@holchem.co.uk

BENEFITS

- High chlorine content.
- Excellent removal of protein, tannin and vegetable deposits.
- Good soil removal and suspension.
- Enhanced surfactancy gives wet penetrating foam.

TECHNICAL DATA

Appearance	Pale yellow non-viscous liquid	
Odour	Bleach	
Foam	Wetting, mobile foam	
Specific Gravity at 20°C	1.19 @ 20°C	
pH (1% solution at 20°C)	11.5 - 12.5	
Nitrogen Content (N)	0.76 g/L	(As supplied)
Phosphorous Content (P)	0.34 g/L	(As supplied)
Mercury[1]	0.03 mg/L	(max)
Cadmium	0.02 mg/L	(max)
Storage Temperature Range	-5°C to +30°C	
Shelf Life	Maximum of 4 months under normal conditions	
Holchem Classification		

[1] *Note: Holchem's policy is to use Mercury free caustic.*

PRODUCT COMPATIBILITY

CAUTION: Contact with acid liberates Toxic Chlorine Gas. However, in normal use it is acceptable to follow this product with a disinfection stage using Peracetic Acid, provided all chlorinated detergent has been rinsed to drain. Also ensure that Peracetic Acid **is not being used** in another area that uses a common drain run. It is advisable **to not allow** kegs of Chlorfoam Plus and Peracetic Acid to be present at the same time during cleaning.

Chlorfoam Plus used at typical use strengths is safe for use on 304 and 316 Stainless Steel provided it is well rinsed after the cleaning stage. It is corrosive to Aluminium, Copper, Zinc and their alloys. If not fully rinsed corrosion can occur on Stainless Steel.

BIODEGRADABILITY

The surfactant(s) used in this preparation complies (comply) with the biodegradability criteria as laid down in the European Detergents Regulation No 648/2004. Not expected to Bioaccumulate.

TEST METHODS

DROPPER TEST (ALKALINE TEST KIT)

Reagent	Ref.	Equipment	Ref.
PA1	SKS00800-01	5 ml Syringe	SKS00820
PA2	SKS00800-02	20 ml Syringe	SKS00822
Sodium Thiosulphate	SKS00800-03	Polycarbonate Test Jar	SKS00823

Step	Method
1	Using the syringe, transfer 10 ml of the test solution into the test jar.
2	Dilute with clean water to about 20 ml.
3	Add one crystal of Sodium Thiosulphate and shake to dissolve.
4	Add 2 – 3 drops of reagent PA1, the solution should go red.
5	Add PA2 dropwise, swirling the bottle after each addition to ensure that the reagent is thoroughly mixed, until the solution becomes colourless.

% v/v Product = (No. of drops of PA2) x 0.08

Using a 2 ml sample of the test solution and following steps 2 to 5.

% w/v NaOH = (No. of drops of PA2) x 0.032

A TOTAL AVAILABLE CHLORINE TEST KIT IS ALSO AVAILABLE, BUT THIS IS NOT RECOMMENDED FOR CONTROLLING PRODUCT STRENGTH.

SAFE HANDLING & STORAGE

Keep containers tightly closed. Do not allow to come into contact with acid.

COSHH places a duty on employers to assess and control the risks of using hazardous substances. The Safety Data Sheet provides the relevant information about the product to assist with this assessment.

PACKS

Chlorfoam Plus is available in the following pack sizes:

25 Kg
200 Kg
1000 Kg

GENERAL

Outside Office Hours: - For accidents and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advice call: - +44(0) 7050 265597.
Note: This number will not accept order queries or calls dealing with equipment breakdowns.

Environment Agency (24 hr. Advisory Service)	0800 807060
Irish Environment Protection Agency	1890 335599

Whilst every effort is made to ensure that the information given in this product information sheet is accurate it is given without guarantee, since the conditions of use are beyond our control.

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