DESCRIPTION

Caustic 32 is a concentrated caustic solution formulated to be low foaming, enabling it to be used in recirculation applications. It is designed primarily for applications in Breweries, Beverage, Dairies and Food Processing plants. Caustic 32 is also suitable for use in other high care industries.

Caustic 32 is suitable for adjusting the pH of effluent streams. Caustic 32 can also be used in conjunction with various Adhol products to provide a customised CIP detergent in Food, Beverage and Dairy environments.

Caustic 32 has a high freezing point (approx 5°C), during cold periods it must be protected from frost and wind chill. Bulk tank systems must have trace heating and pipework should be lagged and trace heated.

Caustic 32 is produced using Food Codex Grade Sodium Hydroxide.

USE INSTRUCTIONS

In use concentrations of Caustic 32 are application dependent and should be established during trials.

Cleaning temperatures should be optimised during trials. For fatty or heavily carbonised soils, temperatures above 90°C can be used.

Caustic 32 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.

CIP. For Clean in Place applications Caustic 32 is typically circulated for 20 – 30 minutes at 0.5% to 3% v/v. The exact concentration is dependent on water hardness and soil type/level. Before circulating the detergent, pre-rinsing with water is advisable. After cleaning, the circulation loop should be flushed with clean water until pH or conductivity of the rinsing is approximately equal to that of the water.

Occasionally CIP cleans need to be boosted by use of additives such as Holchel or Adhol No.10. Caustic 32 is compatible with Adhol No. 10, but advice on procedures should be taken from your Holchem Consultant.

Bottle Washing. Caustic 32 can be used as a bottle washing detergent at 0.75% to 1% v/v solution. Typical use at temperature will be around 80°C. Use with an Adhol additive will improve compatibility with hard water, label pulping and soil suspension.

pH Adjustment. Caustic 32 is an economic means of pH adjustment of acidic effluent streams. It is recommended that dosing is controlled automatically by an appropriate probe and pump system.

Other Applications. Caustic 32 is a versatile product, other applications should be discussed with your Holchem Consultant.

BENEFITS

- Cost effective source of NaOH.
- Compatible with Holchel and the Adhol range to produce customised detergents.
- Suitable for use in Recirculation systems.

TECHNICAL DATA

Appearance	Colourless non-viscous liquid	
Odour	No characteristic odour	
Foam	No foam	
Specific Gravity at 20°C	1.33	
Active Alkalinity	32% w/w NaOH	
pH (1% solution at 20°C)	12.0 - 13.0	
Mercury[1]	0.068 mg/L	(max)
Cadmium	0.0068 mg/L	(max)
Storage Temperature Range	+5°C to +40°C	
Shelf Life	Minimum of 2 years under normal conditions	
Holchem Classification		

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

PRODUCT COMPATIBILITY

Caustic 32 is safe for use on 304 and 316 Stainless Steel. It is corrosive to Aluminium, Copper, Zinc, Tin and their alloys.

Contact with certain plastics can result in stress corrosion cracking.

BIODEGRADABILITY

Not expected to Bioaccumulate.

TEST METHODS

Caustic 32 is dosed as required to control pH.

CONDUCTIVITY

The specific conductivity at 20°C is approximately 20 mS / per 1% v/v.

A 2.3% v/v solution of Caustic 32 will produce approximately a 1% w/v Sodium Hydroxide solution with conductivity at 20°C of approximately 46 mS.

DROPPER TEST (ALKALINE TEST KIT)

Reagent	**Ref.**	**Equipment**	**Ref.**
PA1	SKS00803-01	5 ml Syringe	SKS00820
PA2	SKS00803-02	20 ml Syringe	SKS00822
		Polycarbonate Test Jar	SKS00823

Step	Method
1	Using the syringe, transfer 2 ml of the test solution into the test jar.
2	Dilute with clean water to about 20 ml.
3	Add 2-3 drops of reagent PA1. The solution should turn red.
4	Add reagent PA2 dropwise, shaking or swirling the bottle after each addition to mix properly, until solution turns clear.

% v/v Product = (No. of drops of PA2) x 0.094

Using a 2 ml sample of the test solution and following steps 2 to 4.

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

SAFE HANDLING & STORAGE

Keep in original container. Keep containers tightly closed.

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

Caustic 32 is available in the following pack sizes:

30 Kg
250 Kg
1300 Kg

GENERAL

For accident, emergency and health & safety information refer to the Safety Data Sheet for this product.

This product is registered with the National Poisons Information Service.

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.