

DESCRIPTION

Holchel is a sequestrant additive designed for use with caustic detergents to enhance their performance.

Holchel is a ready source of EDTA and is particularly useful for the removal of beerstone, milkstone and tannin stains.

Holchel can also be used as a low foaming, low alkaline detergent.

Holchel is designed primarily for applications in Breweries, Beverage, Dairies and Food Processing plants. Holchel is also suitable for use in other high care industries.

USE INSTRUCTIONS

In use concentrations of Holchel are application dependent and should be established during trials. A 1% solution will control 110 ppm water hardness CaCO_3 .

Holchel 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, Holchel is used as an additive to caustic solutions to enhance performance, particularly in the presence of soils containing high levels of dairy or brewing residues. Cleaning temperature should be selected to be appropriate to the soil and must be optimised during trials. For fatty or heavily carbonised soils, temperatures above 90°C can be used. However, for protein soils, it is often more effective to clean at lower temperatures (up to 70°C). Before circulating the detergent / Holchel solution, pre-rinsing with water is advisable. After cleaning, the circulation loop should be flushed with water until the pH or conductivity of the rinsing is approximately equal to that of the water.


The concentration of Holchel required will vary depending on the water hardness and soil level. It is advisable to validate trial cleans to have around 200 ppm free EDTA present at the end of the clean. A test kit for measuring free (residual) EDTA is available from Holchem.

Cleaning. Holchel can be used at 1.0% to 2.0% v/v for cleaning lightly soiled food contact surfaces (particularly if the soil is a fine coating of mineral scale). Solutions can be used at ambient temperature, or up to 50°C; detergency increases with temperature, but care should be taken to ensure that the surface can withstand hot solutions.

BENEFITS

- Adjustable rate of addition to suit requirements.
- Suitable for recirculation.

TECHNICAL DATA

Appearance	Clear non-viscous liquid
Odour	Ammoniacal
Foam	No foam
Specific Gravity at 20°C	1.30
pH (1% solution at 20°C)	11.0 - 12.0
Nitrogen Content (N)	43 g/L
Storage Temperature Range	-5°C to +40°C
Shelf Life	Minimum of 2 years under normal conditions
Holchem Classification	



PRODUCT COMPATIBILITY

Holchel is corrosive to soft metals such as Aluminium, Zinc, Copper, Tin or their alloys. Surfaces containing these metals should not be left soaking in the solution for more than 15 minutes.

BIODEGRADABILITY

Not expected to Bioaccumulate.

TEST METHOD

RESIDUAL EDTA TEST KIT

Reagent	Ref.	Equipment	Ref.
TH5	SKS00804-03	5 ml Syringe	SKS00820
TH2	SKS00804-02	Polycarbonate Test Jar	SKS00823

Zinc Chloride (0.01M)

Method

- 1 Using the syringe, transfer 5 ml of the test solution into the test jar.
- 2 Add 10 drops of TH5, shake or swirl to mix.
- 3 Add 35 drops of TH2, shake or swirl to mix. A blue colouration indicates the presence of residual sequestrant.
- 4 Add Zinc Chloride solution dropwise, shaking or swirling the bottle after each addition to mix properly, until the solution turns purple. Note the number of drops of Zinc Chloride solution added.

ppm (residual sequestrant as EDTA acid) = (No. of drops of Zinc Chloride solution) x 24

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

Holchel 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.





EMERGENCY TELEPHONE NUMBERS

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.

