

DESCRIPTION

Holphos is a blend of Phosphoric Acid and wetting agents. It is designed primarily for descaling applications in Breweries, Beverage, Dairies and Food Processing plants. Holphos is also suitable for use in other high care industries.

Holphos is suitable for use in recirculation applications, but in very turbulent conditions it may foam.

Care should be taken when using Holphos in regions where Phosphate discharge levels are set very low.

USE INSTRUCTIONS

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

Cleaning temperatures should be optimised during trials. Holphos can be used at temperatures above 90°C, but in practice little benefit is achieved by using temperatures above 60°C. For soils with high protein scale content, very high temperatures can make the soil become more resistant to cleaning.

Holphos 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, Holphos is typically circulated for 20 – 30 minutes at 1% to 5% v/v. 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.

For vessels that are very heavily scaled with mineral salts; a point may be reached where significant scale still exists, but, all the useful acidity has been consumed. In these instances, it is advisable to optimise descaling procedures by starting at around 5% v/v concentration, and titrating the acid strength during the clean. If concentration falls to below 1% acid, additional Holphos should be added to increase concentration back to 5%. By noting the total volume of acid used, subsequent cleans can be optimised to use a single dose of this volume of acid.

Boil-out. Holphos is suitable for boil out cleaning of cooking vessels after routine caustic boil-outs have left a build up of mineral scale. Typical concentrations are between 1% to 5% v/v dependent on the level of soiling. Typical contact time (boil-out time) should be approximately 20 – 30 minutes.


Traywash Descaling. Holphos may be used at 3% to 5% v/v to descale tray and rack wash machines. However, care should be taken to ensure that there are no soft metal components, especially around the heating elements. During the operation CO₂ gas will be evolved, it is therefore essential to ensure that adequate ventilation exists.

Manual Cleaning. Holphos can be used with great care at around 1% to 3% v/v as a manually applied detergent for removal of heavy mineral scale or protein deposits. It is applied by brush, pad or pump-up sprayer. Before using Holphos manually, a full risk assessment should be carried out and adequate safeguards and PPE should be issued.

BENEFITS

- Removes mineral, protein and tannin deposits.
- Good soil removal and suspension.
- Streak free finish.

TECHNICAL DATA

Appearance	Clear, colourless to pale green, non-viscous liquid	
Odour	Acidic	
Foam	Low foam	
Specific Gravity at 20°C	1.23	
pH (1% solution at 20°C)	1.9 - 2.2	
Chemical Oxygen Demand (COD)	70.4 g/L	(as supplied)
Nitrogen Content (N)	0.09 g/L	(as supplied)
Phosphorous Content (P)	144.97 g/L	(as supplied)
Mercury	0.005 mg/L	(max)
Cadmium	0.92 mg/L	(max)
Storage Temperature Range	-10°C to +40°C	
Shelf Life	Minimum of 2 years under normal conditions	
Holchem Classification		

PRODUCT COMPATIBILITY

CAUTION: Contact with chlorinated products will release Toxic Chlorine Gas.

Use solutions of Holphos are safe for use on 304 and 316 Stainless Steel. Holphos is corrosive to Aluminium, Copper, Zinc and their alloys.

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

CONDUCTIVITY

The specific conductivity at 20°C is approximately 3.6 mS / per 1% v/v.

DROPPER TEST (ACID TEST KIT)

Reagent	Ref.	Equipment	Ref.
PA1 Indicator	SKS00800-01	5 ml Syringe	SKS00820
ACD3 Alkali Solution	SKS00801-01	Polycarbonate Test Jar	SKS00823

Step Method

- 1 Using the syringe, transfer 2 ml of the test solution into the test jar.
- 2 Dilute with water to about 20 ml.
- 3 Add 2 to 3 drops of PA1. The test solution should remain colourless.
- 4 Add ACD3 dropwise, shaking or swirling the bottle after each addition to mix properly, until the solution turns pink. Note the number of drops of ACD3.
- 5 **% v/v Product = (No. of drops of ACD3) x 0.05**

SAFE HANDLING & STORAGE

Store away from chlorinated products. Keep in the 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

The product is available in the following pack sizes:

4 x 5 Kg
30 Kg
230 Kg
1250 Kg
Bulk

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.