

DESCRIPTION

Nipac B contains a blend of Nitric and Phosphoric Acid. It is designed primarily for applications in Breweries.

Nipac B is also suitable for use in other high care industries and is very effective in the removal of mineral scale, protein build up and vegetable/salad staining in food preparation applications.

Nipac B is formulated to be low foaming and is suitable for use in recirculation applications. It can be used as an alternative to caustic based detergents in Breweries for the cleaning of Bright Beer Tanks and Tankers, whilst under CO₂ atmosphere.

USE INSTRUCTIONS

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

Cleaning temperatures should be optimised during trials. However, it is not advisable to use Nitric Acid based products such as Nipac B above 50°C.

In contact with Copper or its alloys (Brass, etc), Nitric Acid based products will produce Toxic Gas. It is essential to confirm that equipment to be cleaned does not contain these or related materials.

For equipment in regular contact with Nipac B, it is recommended that pipe/flange seals are manufactured from PTFE. For equipment in occasional contact with Nipac B, EDPM seals are suitable.

Nipac B 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 of Stainless Steel, glass and synthetic resin lined vessels or pipelines; Nipac B is typically circulated at 1% to 4% v/v. It is advisable to check compatibility before using Nipac B with synthetic resins. Nipac B can be used in a CO₂ atmosphere without degradation. 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 rinsings 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 4% v/v concentration and titrating acid strength during the clean. If concentration falls to below 1% acid, additional Nipac B should be added to increase concentration back to 4% v/v. By noting the total volume of acid used, subsequent cleans can be optimised to use a single dose of this volume of acid.

BENEFITS

- Excellent mineral and protein removal.
- Aids removal of beer and milk stains.
- Safe for use on Stainless Steel.
- Can be used under CO₂ atmospheres.
- Suitable for use in CIP applications.

TECHNICAL DATA

Appearance	Clear to pale yellow liquid
Odour	Pungent acidic
Foam	Low foam
Specific Gravity at 20°C	1.27
pH (1% solution at 20° C)	1.0 - 2.0
Chemical Oxygen Demand (COD)	0.32 g/L (as supplied)
Nitrogen Content (N)	116.82 g/L (as supplied)
Phosphorous Content (P)	16.27 g/L (as supplied)
Mercury	0.002 mg/L (max)
Cadmium	0.392mg/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.

CAUTION: Contact with Copper and its alloys will release Toxic Gas.

Nipac B is corrosive to soft metals such as Aluminium, Zinc, Tin, Copper or their alloys. Contact with certain plastics may result in stress corrosion cracking.

BIODEGRADABILITY

This product consists of inorganic components for which biodegradation assessment is not required.

TEST METHODS

CONDUCTIVITY

The specific conductivity at 20°C is approximately 22.7 mS / per 1% v/v.

DROPPER TEST (ACID TEST KIT)

Reagent	Ref.	Equipment	Ref.
PA1	SKS00800-01	5 ml Syringe	SKS00820
ACD3	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 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:

- 30 Kg
- 250 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.