

# ADCIP PB1770

## Non-Hazardous, Powdered, Potassium-based Alkaline C.I.P. Cleaner

**ADCIP PB1770** is a potassium-based wine tank cleaner and general cleaning detergent. While potassium salts are more expensive than sodium salts, they have the advantage of cleaning more effectively (potassium tartrate is 4 times more soluble in water than sodium tartrate).

**ADCIP PB1770** is free flowing, off white powder that is blended with mild potassium alkaline salts combined with low foaming high activity surfactants, plus powerful chelating and water conditioning agents with anticorrosive additives and a mild protein remover additive.

**ADCIP PB1770** is specifically formulated for use in wineries as a powerful yet economical product for stainless steel tank cleaning and tartrate / removal of red wine staining and protein deposits. (To aid in removal of difficult protein stains add **Adoxy LA1522**)

**ADCIP PB1770** is a non-caustic cleaner designed to clean stainless steel and be safe for use on glass, plastics and ceramics, while also helping clean filters more effectively.

**ADCIP PB1770** is environmentally friendly and safe to handle, and the sodium content of the effluent is lowered due to this potassium-based formulation

**ADCIP PB1770** is a low dusting and easily dissolvable powder and suitable for use with pressure sprayball 'CIP' tank washing systems.

### FEATURES AND BENEFITS:

1. One-step concentrated product that reduces citric neutralisation step required with highly caustic cleaners.
2. Powerful low foam surfactants provide superior cleaning with new technology surfactants that aid to reduce surface tension, thus providing free rinsing.
3. Reduced neutralisation and free rinsing; provides water, energy and time savings.
4. High solubility hence reduced mix / preparation time.
5. Active powerful detergency, low foaming CIP formulation.
6. Excellent OH&S profile, non-DG (Australian Dangerous Goods Code), non-toxic, specifically formulated with HACCP programmes in mind.
7. Safe to mix, nondusting, and no splash hazard like caustic based cleaners.
8. Non-fuming / vapours in use, non-flammable and safe to mix and use in hot or cold water.
9. Effective action at 25°C aqueous solution and improved speed at 50 - 60°C and / or lower concentration which will reduce waste salts in reclaimed waste water.
10. Effective and safely cleans wine tartars and stains as an aqueous solution while being essentially non-corrosive to stainless steels, galvanised surfaces, plastics, glass, aluminium and most painted surfaces.
11. Excellent environmental profile, wastewaters contain no phosphates, chlorine. Reduced B.O.D. compared to caustic
12. 100% active formulation, reduced inventory, less shipping weight (water)

## CHEMICAL AND PHYSICAL PROPERTIES

Appearance:	Off white powder
Flash Point:	Non-flamable
Density (Apparent):	1.0
Foam Characteristics:	None
Odour:	Low
pH (1% solution):	>11.3

## METHODS FOR USE:

*All methods are given as a guide and please refer to your own operating procedures and or contact Advance Chemicals for further assistance to achieve the best results from this product.*

**Solubility:** ADCIP PB1770 dissolves very rapidly in hot water, however the dissolution rate of ADCIP PB1770 does drop with lower water temperatures.

### When to use ADCIP PB1770:

Timing of use after your wine process will optimise product effectiveness and minimize cost. Following cold stabilization allow the tank to return to room temperature before commencing cleaning with ADCIP PB1770. Commence cleaning while the tank is still in a moist condition. Dried tartrate is harder to clean.

### Cold water application of ADCIP PB1770:

**Pre-chemical clean pressure rinse** / connect up and prime the CIP circulation system.

Add cold water to the dosing tank and proceed to pressure spray the tank from top to bottom. Hose out loose deposits. Drain and restart with ADCIP PB1770 solution wash

**CIP Chemical Cleaning:** Refill the dosing tank with cold water and add ADCIP PB1770 at a rate of 2.0-5.0% of water solution, (2 - 5kg kg per 100L)

**Dosage Rate** is dependant on degree of severity of soiling / tartar.

Prior removal of bulk / excessive loose deposits will maximise the efficiency / cost effectiveness of the clean by enabling a lower chemical addition.

**Mix and dissolve ADCIP PB1770** in bucket then pour into tank, then allow circulation to begin.

Optimise pump flow as the more pressure available at the discharge nozzle / sprayball, the better the clean will be. *(best size pump 8-11kw rated)*

**Initial pH will be around 11.5**, and as the circulation continues, the cleaning agent will slowly be consumed as it cleans. Test the solution approximately every 20 minutes with a pH test strip.

Should the pH drop as low as pH 9 the solution is effectively spent. Replenished if required for complete cleaning.

**Clean Water Rinse:** When the tank is clean and free of deposits to your standards, a fresh water rinse / Citric rinse should be applied. The lower pH of ADCIP PB1770, means that less citric acid and water is required for rinsing as compared to normal caustics.

**Sanitising Rinse:** Prior to re-commissioning tank (refilling) apply a sanitising rinse,

*Adoxysan LA996* at 0.5% to 1.0% applied cold will thoroughly neutralise a broad spectrum of aerobic, anaerobic, fungi, yeasts and moulds. This will also thoroughly prepare the tank surface for use.

## Hot water application of ADCIP PB1770:

The use of hot water, whilst requiring more energy input heating the solutions, does speed up the process and allow some reduction in chemical consumption. The process is similar to the cold application, however there is some benefit to circulating just hot water (60°C) at the beginning of the CIP phase of the clean, prior to introduction of **ADCIP PB1770**.

**Pre-chemical clean pressure rinse:** Essentially as the cold routine, but hot water speeds the process. There is benefit from using a hot water rinse prior to using **ADCIP PB1770**.

**CIP Chemical Cleaning:** Initially refill the dosing tank only with hot water 60-70°C.

Begin the cleaning cycle with hot water alone to maximise the effect of the hot water.

Initially the temperature will drop rapidly, but eventually this will stabilise and the tartars will soften and much of them will be removed with hot water alone.

By this time, a lot of the acidic tartrate material will have been dissolved into the hot water.

Drop this solution to waste whilst still warm (40°C) to maintain solution.

**Dosage Rate:** Refill the dosage tank with hot water and **ADCIP PB1770** added at a lower concentration of 1.0-2.0% w /v (1 - 2kg per 100L)

It is safe to add **ADCIP PB1770** direct to hot water, it will dissolve more readily.

**Clean Water Rinse / Sanitising Rinse:** Proceed as per cold water recommendations.

## OH&S Requirements:

Although the use of **ADCIP PB1770** is a much less hazardous product the procedure for handling Dangerous Goods rated corrosive caustic soda solutions, all avenues of OH&S (occupational health and safety) precautions should still be observed.

Please review **ADCIP PB1770** Material Safety Data Sheet for full instructions.

## FOOD SAFETY STATEMENT

With regard to the use of this product as a cleaner and / or sanitiser that may have incidental contact with food:

1. The raw materials / ingredients of this product are permitted as 'processing aids' as listed under clause 12 of the Food Standard Code 1.3.3 (Food Standards Australia New Zealand FSANZ)

**Or**

2. Are Generally Regarded As Safe (GRAS) according to the US Food and Drug Administration (FDA) or are recognised in the US Code of Federal Regulations (CFR) Title 21 part 178 as indirect food additives. When used in accordance with the directions described in this product profile. This product complies with these recognised food safety parameters.

## SHELF LIFE:

As a quality assured manufacturer, Advance Chemicals has a stringent Quality assurance program.

As part of this regime, the label on this product shows a batch number and date of manufacture.

This product has a shelf life of 36 months from the label printed date of manufacture.