

### DESCRIPTION

Perbac 15 is supplied as an equilibrium blend of Acetic Acid and Hydrogen Peroxide giving a 15% w/w active concentration of Peracetic Acid (PAA).

Perbac 15 meets the requirements of current European Legislation and is supported in the Biocidal Products Directive (98/8/EC).

When used as directed, Perbac 15 is suitable for use as a disinfectant in Food, Brewing, Beverage and Dairy Production Plants. The broad spectrum of biocidal activity also makes Perbac 15 suitable for use in other high risk areas where good antimicrobial control is required.

Peracetic Acid has been independently tested by:

**Lab-Test Laboratorium SC** against:

- EN13697 (Bacteria and Fungi) in dirty conditions.
- EN1276 (Bacteria) in clean and dirty conditions.
- EN1650 (Fungi) in clean and dirty conditions.

### USE INSTRUCTIONS

Use Perbac 15 as an antibacterial disinfectant at concentrations between 0.03% and 0.3% v/v (50 – 500 ppm active PAA).

For antifungal applications, concentrations up to 1% v/v (1680 ppm) may be required. Your Holchem representative will be able to advise on the most appropriate disinfectant regime.

Note; it is advisable to validate cleaning and disinfection by an appropriate post disinfection swabbing regime.

Also it is advisable to use Perbac 15 through an appropriate dosing control pump. Dispensing by hand is not appropriate for this product. Your Holchem representative will be able to advise on the most appropriate equipment.

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 Disinfection.** Perbac 15 can be used as a disinfectant in Clean in Place applications, at concentrations between 0.03% and 0.3% v/v with a contact time of at least 15 minutes. For non-rinse applications, national and industry specific regulations should be checked. However, if there is poor drainage and there is an opportunity for significant hold-up of liquid, rinsing with potable quality water is advisable.

**Spray Disinfection.** Perbac 15 can be used as a spray disinfectant, typically at 0.03% to 0.3% v/v. This may be as the final disinfection stage of an automated traywash or in the enclosed area of aseptic fillers. However, in more open plant applications it is essential to ensure that operatives have suitable protective clothing (refer to MSDS) and that areas are adequately ventilated.

**Note:** - In open plant areas Perbac OPD may be a more appropriate source of PAA.

**Fogging.** Perbac 15 can be used for fogging into air spaces to control airborne micro-organisms at concentrations from 0.3% to 1% v/v. Fogging, where required, should be used as part of a total cleaning and disinfection regime. During fogging, all personnel must be evacuated from the area and fogged areas must not be re-entered until all the fog has settled (typically 1 hour). After fogging, it is advisable to rinse surfaces with potable quality water. Advice on fogging is available from Holchem.

**BENEFITS**

- Oxidising Biocide.
- Breaks down to form Water and Acetic Acid.
- Low in use concentrations.
- Non-foaming.
- Suitable for recirculation.

**BIOCIDAL EFFICACY**

Peracetic Acid demonstrated antimicrobial efficacy against bacteria, yeast and fungi when tested in accordance with the following methods. Full details of test results are available on request.

Organism	EN1276	EN13697	EN1650
<i>Staphylococcus aureus</i>	✓	✓	
<i>Enterococcus hirae</i>	✓	✓	
<i>Escherichia coli</i>	✓	✓	
<i>Pseudomonas aeruginosa</i>	✓	✓	
<i>Listeria monocytogenes</i>		✓	
<i>Salmonella enterica sb. enterica</i>		✓	
<i>Aspergillus niger</i>		✓	✓
<i>Candida albicans</i>		✓	✓
<i>Saccharomyces cerevisiae</i>		✓	

NOT APPLICABLE TO STANDARD

**TECHNICAL DATA**

Appearance	Colourless, non-viscous liquid
Odour	Pungent Acetic Acid
Foam	No foam
Specific Gravity at 20°C	1.12
pH (Neat)	<1
pH (1% solution at 20°)	< 2.0
Storage Temperature Range	0°C to + 25°C
Shelf Life	12 months under normal conditions
Holchem Classification	



### PRODUCT COMPATIBILITY

Perbac 15 is safe for use on all common materials of construction to at least 1% v/v. However, prolonged contact with Copper, Brass, Nickel / Chrome, Zinc or Mild Steel should be avoided. Surfaces containing these metals should not be left soaking in the solution for more than 20 minutes. Contact with certain plastics (Perspex and Polycarbonate) may cause stress cracking. Contact with chlorinated products must be avoided as this will liberate Chlorine Gas.

### BIODEGRADABILITY

Perbac 15 is not expected to Bioaccumulate, the breakdown products are fully biodegradable to Water and CO<sub>2</sub>.

### TEST METHODS

#### CONDUCTIVITY

Conductivity is not recommended as a means of controlling the concentration of Perbac 15.

#### TEST STRIPS

Test strips measuring in the range 0 – 50 ppm and 0 – 500 ppm active PAA are available and provide a quick means of determining concentrations.

#### DROPPER TEST

Reagent		Equipment	
Acid Ammonium Molybdate	SKS00811-04	10 ml Syringe	SKS00821
Potassium Iodide Crystals	SKS00811-03	Polycarbonate Test Jar	SKS00823
Sodium Thiosulphate 0.4N	SKS00833	Spatula	SKS800824

Step	Method
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- |   |   |
|---|---|
| 1 | Using the syringe transfer 10 ml of the test solution into the test jar.  |
| 2 | Add a small amount of Potassium Iodide crystals and swirl the test jar to dissolve.   |
| 3 | Add 10 drops of Acid Ammonium Molybdate and swirl to dissolve, the solution should now be a yellow/amber colour.  |
| 4 | Add Sodium Thiosulphate 0.4N one drop at a time. Swirling jar between each addition. Count the numbers of drops required to change the colour from yellow/amber to clear. |
| 5 | <b>Number of Drops of 0.4N Sodium Thiosulphate x 18 = ppm of Peracetic Acid.</b>  |
| 6 | <b>Note: - ppm PAA x 0.0006 = % v/v Perbac.</b>   |

### SAFE HANDLING & STORAGE

Keep containers tightly closed. Store away from chlorinated products. Also, store away from flammable materials. 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:

- 25 Kg
- 200 Kg
- 1000Kg

### GENERAL

For accident, emergency and health & safety information refer to the Safety Data Sheet for this product. This product is registered in the UK 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.

