

POISON

**KEEP OUT OF REACH OF CHILDREN
READ DIRECTIONS BEFORE OPENING**

Hydro *PURE*

Chlorine Free

Water Treatment for INDUSTRIAL,
COMMERCIAL and RURAL APPLICATIONS.

- ◆ Food and Beverage Processing
- ◆ Storage Tank and Pipe Cleaning
- ◆ Cooling Towers and Air Conditioning Plants
- ◆ Livestock Drinking Water Maintenance
- ◆ General Disinfection and Odour Control



Ingredients:	Hydrogen Peroxide	50%
	Complex colloidal silver	<0.0846%
	De-ionised Water	to 100%

WATER QUALITY (maintenance) 20ppm-35ppm. Dosage depends on existing water clarity and temperature and may need to be increased if water is heavily contaminated or during hot weather.

PIPE AND TANK CLEANING (shock dose) 150ppm-200ppm. When Hydro Pure is added for the first time it will scour built up grime and pathogen growth from the internal pipe linings, so treated water should initially be disposed of before maintenance dose is added.

COOLING TOWERS 50ppm. Initial shock dose at 150ppm-200ppm will be required to remove contaminants in pipe work, etc.

DOSAGE GUIDE 10ppm = 1ml/100L

SAFETY DIRECTIONS: Do not swallow. Corrosive. Attacks eyes and skin. Wear protective clothing and eyeshield. Store upright in original container in a cool place. Keep container tightly closed with vented cap provided. If spilt, dilute with large quantities of water. Keep away from heat, combustibles and other chemicals. Do not return unused material to original container.

FIRST AID: If poisoning occurs, get to a doctor or hospital quickly. If swallowed, do NOT induce vomiting. Give plenty of water. Repeat if vomiting occurs. If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water. If in eyes, remove contact lenses if worn, hold eyes open and flood with water for at least 15 minutes. Get urgent medical attention.

Hydro PURE

for Disinfection, Odour Reduction and Biofilm Removal in Water Tanks & Pipes

Hydro Pure is an environmentally friendly agent for disinfecting and deodourising water tanks. It can also be used for removing bio-fouling (slimy build up of bacteria on pipes).

Active ingredient - Hydrogen Peroxide [H₂O₂] – 50% by volume

WARNING – Hydrogen Peroxide is a very reactive chemical – read safety instructions included in this information brochure and those printed on the container label

Powerful - *Hydro Pure* is one of the most powerful oxidizers known – stronger than chlorine, chlorine dioxide, and potassium permanganate.

Safe - Despite its power, *Hydro Pure* (H₂O₂) is a natural metabolite of many organisms, which decompose into oxygen and water. Consequently, H₂O₂ has none of the problems of gaseous release or chemical residues that are associated with other chemical oxidants. And since H₂O₂ is totally miscible with water, the issue of safety is only one of concentration.

When *Hydro Pure* breaks down in water, the only by-products are water and oxygen.

Tank Disinfection



Water stored in tanks comes from a variety of sources. Rain collected water is generally biologically safe if the roof, guttering, tank and distribution system is relatively clean and is kept as such. However, organic matter, faecal matter, dead animals and birds can all introduce bacteria very quickly into rain collected water and this is where *Hydro Pure* is very useful as a periodic disinfectant and deodourising agent.

Water drawn from other "open" sources such as streams, rivers and lakes (shallow bores and aquifers) is also susceptible to biological contamination and while *Hydro Pure* can be used for the periodic maintenance of stored water, more permanent disinfection systems should be discussed with your water treatment specialist. *Hydro Pure* is not to be used as a regular means of disinfecting water.

Water drawn from deep bores is generally biologically safe although other chemical and physical problems can be encountered with water from this source.

Handling, Safety and First Aid

- Hydro Pure* is stabilized hydrogen peroxide and is therefore extremely stable. **Store only in original vented container.** Never return any solution taken from the container, back into the container.
- Ensure adequate ventilation and an ample water supply (for thorough flushing of accidental spillage of concentrate on personnel or property) are on hand when handling *Hydro Pure*.
- Always dilute any spills of concentrated *Hydro Pure* with large volumes of water.
- Wear rubber gloves and immediately wash with water, any spills of concentrate on the skin or clothing.
- Always wear eye protection (preferably goggles) and if contact is made with concentrated *Hydro Pure*, immediately (remove any contact lenses) flush with clean water for at least 15 minutes.
- If concentrate is accidentally swallowed, take as much water as possible to dilute. Do NOT induce vomiting. Give additional water if vomiting occurs. **Seek Medical attention immediately.**

When to Dose with *Hydro Pure*

- if household members are getting stomach cramps, diarrhoea, or gastroenteritis
- if fecal matter is found on the roof or if there are often opossums or birds on the roof
- if dead animals or birds are found in the gutting or in the storage tanks
- if the water is unused for some time (holiday homes, wool sheds, musterer's hut, etc)
- if there are unpleasant tastes or if there are musty, earthy odours in the water
- if water from an unknown or suspect source is added to the tank
- after cleaning of the storage tank or after plumbing work has been undertaken (shock dose – see below)

ROUTINE & SHOCK DOSING RATES FOR *HYDRO PURE* (in parts per million or ppm)

Dosage Guide 20ppm = 20ml of *Hydro Pure* to 1,000 litres of water

 35ppm = 35ml of *Hydro Pure* to 1,000 litres of water

(e.g. to dose a full 22,000 litre (5,000 gallon) tank to 35ppm; add 770ml of *Hydro Pure* [25ml x 22])

For routine disinfection of clean, stored water treat with suspected contamination –

- dose to 20 ppm of *Hydro Pure* solution

If contamination is known to have definitely occurred (physical evidence of contamination and/or humans with physical symptoms as described above) –

- dose to 35 ppm of *Hydro Pure* solution

If water clarity is suspect (looks a little cloudy or has minute particles floating in it) –

- dose to 35 ppm of *Hydro Pure* solution

Shock Dose – use after cleaning storage tanks, for clearing bio-fouling (bio-film) or for disinfecting after plumbing work or when new pipes are installed –

- dose between 150 – 200 ppm *Hydro Pure* solution (make sure solution is drawn into pipes)

Leave as long as possible and then flush thoroughly. **DO NOT DRINK FROM THIS CONCENTRATION**

- *Hydro Pure* requires good mixing when put into large volumes of water. Recirculate water through a pump back into tank for 15 minutes or stir with a large, clean paddle or board.
- If water is particularly turbid or cloudy, it should be filtered first to avoid all the strength of the *Hydro Pure* solution being exhausted in oxidising the organic matter rather than disinfecting bacteria.
- *Hydro Pure* is not a “full time” disinfectant. Never dose more frequently than weekly. Seek more permanent disinfection solutions for ongoing biological problems.

Tank Volume Guide

Square Tank (measure in metres, volume is in litres) Volume = length x width x depth of water x 1000	Circular Tank (measure in metres, volume is in litres) Volume = diameter x diameter x depth of water x 785
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e.g. a circular tank with a diameter of 1.4 M and a water depth of 1 M = 1.4 x 1.4 x 1 x 785 = 1,500 litres

1 Imperial Gallon = 4.5 litres (5,000 gallon tank = 22,000 litres)

1 litre (L) = 1,000 millilitres (ml)