

**OPINION**  
*Liquid Chlorine Bleach*

**A- 4971**

**DESCRIPTION**



**OPINION** finds widespread applications in Food Production, Dairying, Brewing and Soft Drink industries, Abattoirs, Poultry and Fish processing areas, in fact anywhere where anti-bacterial properties are needed to ensure maintenance of hygienic standards. Other uses include deodorising of sinks, drains and refuse areas and general purpose stain removal on sinks, toilets, tiles, crockery and white linen.

**OPINION** is used on white fabrics as a bleaching agent and for chemical sanitation in laundry processing.

**PRODUCT BENEFITS**

- Powerful sanitising action.
- Excellent deodorising properties on decayed organic matter.
- Rapid bleaching action.

**PHYSICAL PROPERTIES**

Appearance .....	Pale yellow liquid
Odour .....	Chlorine
Specific Gravity .....	1.21 – 1.23
Solubility .....	Water soluble in all proportions
Flammability: .....	Non-flammable
pH of Concentrate .....	13
Available chlorine .....	9% w/v when packed

**DIRECTIONS FOR USE**

**Laundries:**

**OPINION** is used at between 1 to 3 ml per Kg of dry linen at 55-60°C (50-150 ppm chlorine). It is dosed after the main wash is drained.

Bleaching should be followed by 2 or 3 rinses (until < 5ppm chlorine) then followed with a sour. The final sour should have no chlorine present.

**RECLAIM WASHES:**

On reclaim linen and for heavy bleaching on stubborn stains, use between 5 and 15mls per kg at 65°C.

**Antichlor:**

Where very high doses of chlorine have been used in reclaim washes, GAMMA (ORAPI HYGIENE 3860) may be used as an antichlor at 0.1 ml per kg in the rinse prior to souring. To avoid fabric damage, use of an antichlor is not a routine procedure as chlorine should be eliminated by adding an extra rinse. Ensure there is no residual chlorine in the final wash zone.

### Hard surface sanitising:

Make up an appropriate use solution in cold water; apply by mop, swab, low pressure non-atomising spray, or soaking techniques. Allow solution to remain on surface for 2 to 5 minutes before rinsing off.

#### Typical Solution Strengths are:

General Purpose Sanitising: 2 ml. per liter of water.  
Stain Removal and Odour Control: 12 ml. per liter of water.

#### Use Concentrations:

Opinion contains a minimum of 12% available chlorine at manufacture.

Chlorine concentrate Guidelines of Opinion when packed:

1 ml /liter **Opinion** produces 125 ppm chlorine in water.  
5 ml /liter **Opinion** produces 625 ppm chlorine in water.  
10 ml /liter **Opinion** produces 1250 ppm chlorine in water  
40mls/litre Opinion produces 5000 ppm chlorine in water.

Allowing for loss of chlorine on storage, normally allow 1ml / liter for 100 ppm chlorine.

For sanitising use 200 ppm chlorine (approx 2 ml/ liter).

For stain removal and odour control use 1200 ppm (approx. 12 ml /liter).

Use Temperature: 20°C (Ambient) to 65°C

Note: chlorine will be released much quicker in warm water and be more effective, but the concentration will also more drop rapidly.

### Fruit & Vegetable Washing:

Make up an appropriate use solution in cold water to achieve 50-100ppm available chlorine. Soak items in solution for 2 to 5 minutes then remove items and allow to drain. Ensure regular water replenishment and checking of chlorine concentration, to remove vegetable soils and to maintain required level of sanitation. Add **Opinion** as necessary to maintain 50-100 ppm chlorine.

**Note:** The chlorine sanitising solution should be slightly higher temperature than the fruits & vegetables.

**OPINION** as with all sodium hypochlorite base products, will degrade rapidly in use or when exposed to heat or sunlight. It is therefore advisable to only make up solutions for immediate use, and to rotate stock using oldest stock first.

### APPROVALS

AQIS approved.

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**STORAGE & SAFETY**

Recommended Storage and Handling Materials: Polythene tanks and fittings. Store in dark (light-proof) vented plastic containers away from incompatible materials such as other oxidising agents, reducing agents, acids, etc.

As **OPINION** will liberate toxic chlorine gas is mixed with acids or detergents containing acids, extreme care should be taken to store **OPINION** away from such products.

**OPINION** is a powerful bleaching agent and in its concentrate form is corrosive to skin or eyes. Ingestion of the product will cause severe internal upset. Inhalation of fumes or mists will cause irritation of nose and throat. Wear safety gloves, aprons and goggles etc.

**Keep out of reach of children.**

*For further information please refer to the Material Safety Data Sheet.*

**PACKAGING**

Ref: A-4971-O2 .....Pail 25L

Ref: A-4971-U2 .....Drum 205 L

**WARRANTY:**

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