



Advance Chemicals Ltd.

Unit 101 - 19623, 56th Avenue, Langley,
British Columbia, **Canada**. V3A 3X7
Phone 604-533-3901, Fax 604-533-5181,
e-mail info@advancechemicals.ca

ADVANCE 12A

Product Data Sheet

Product Description: Disinfectant, sanitizer, odour control, water purification, textile bleaching, commercial laundry applications.

Product Data:

Physical state: liquid

Liquid density: 1.160-1.170 g/mL

PH: 12.5-13.5 @ 20°C

Vapour pressure: 17.5mmHg @ 20°C

Boiling point: decomposes at 40°C

Freezing point: -6°C (5% aq. Sol'n)

Solubility in water: 100%

Evaporation rate: no data

Odour and appearance: The product is a clear, light green to golden yellow liquid. There is a chlorine like odour above the open liquid. The odour is due to the normal, slow but gradual decomposition process.

Directions:

- **For hospitals and health care facilities, schools and general use:**

For general sanitizing, disinfecting and bleaching add 60mL of Advance-12A per 10 Litres of water. Allow a contact time of 10 minutes. Food preparation and food contact surfaces must be rinsed thoroughly with potable water before re-use.

(CAUTION: DO NOT USE ADVANCE 12A ON SILK, WOOL, MOHAIR, LYCRA, UNFAST COLOURS, LEATHER, ALUMINUM OR SILVER.)

- **For Agriculture and Dairy, Food and Beverage Processing**

To prepare a 200 ppm available chlorine solution, add 20ml of Advance 12A per 10 Litres of water. To prepare a 25 ppm

available chlorine solution, add 5ml of Advance 12A per 20 Litres of water. Rinse food contact surfaces and materials thoroughly with potable water when using concentrations of equal to or greater than 200 ppm chlorine.

- **For swimming pool water treatment**

Advance 12A is recommended for use in all types of pools including concrete, vinyl lined and fiberglass. Add the correct amount of Advance 12A to the pool water daily to maintain 1.0 to 3.0 parts per million (ppm) available chlorine. The use of a test kit is recommended. Hot weather, rain and heavy pool use will affect the amount of Advance 12A required. Before adding Advance 12A, the pH should be tested and adjusted to within 7.2 to 7.8. Under average conditions Advance 12A should be added daily at 250mL per 10,000 Litres of water.

RECOMMENDED DAILY LEVELS

Free available chlorine: 1.0 - 3.0ppm

pH: 7.2 - 7.8

Total alkalinity: 100 - 120ppm

Calcium hardness: 200 - 300ppm

Note: If the average daily temperature is around 25°C to 32°C, superchlorinate the pool weekly by adding 1.00 litre Advance 12A per 10,000 Litres pool water. Otherwise, superchlorinate every other week.

Avoid using pool until chlorine residual drops below 2.0 ppm (approximately 24 hours). For best results, superchlorinate at dusk.

Heavy algae infestation may require dosages up to 3.00 Litres per 10,000 Litres pool water. Vacuum pool when dead algae settles. For outdoor pools, chlorine residuals may be protected from destruction by the sun's rays by the addition of *Advance Stabilizer*. For wading pools, chlorinate daily to maintain a chlorine residual of 3-5 ppm by adding 40mL of Advance 12A per 1,000 Litres of pool water, or as required.