



# **INSTA-DIOX**

**(Stabilized chlorine dioxide)**

## **INTRODUCTION**

**INSTA-DIOX** is an effective specialized biocide based on stabilized chlorine dioxide for use in water sanitation, It also finds application food processing and for odour control. **INSTA-DIOX** is a very potent and powerful, non toxic, bactericidal, fungicidal, virucidal, sporicidal biocide activated by the use of **ACTIVA** (activator). It provides a clean water distribution system at concentrations as low as 0.1ppm over a wide range of pH. **INSTA-DIOX** penetrates the cell wall and reacts with vital amino acids in the cytoplasm. Subsequently, it destroys proteins and cell structure by bursting the nucleus thereby ensuring total cidal effect and not allowing resistant / mutant stains to develop. Use of **INSTA-DIOX** offers benefits such as first functioning as an oxidative rather than chlorinating reaction. This virtually eliminates the formation of chlorinated organic compounds. Secondly ClO<sub>2</sub> is generated on site thereby eliminating the need for site storage of chlorine and or transportation thereof.

## **ACTIVE INGREDIENTS**

Chlorine dioxide in aqueous base

## **DIRECTIONS OF USE**

### **PREPARATION OF STOCK SOLUTION**

In a clean one litre opaque bottle, add 10ml **INSTA-DIOX** and fill up the bottle. Add 10 ml of the **ACTIVA** activator and close the bottle. Keep the bottle in a clean and dark place for about 6 - 8 hours.

### **DOSAGE**

2-3ml in 1 ltr, of water for use as as a water sanitizer

Example: For preparing 2 ppm dose: use 2 ml of stock solution per 1 litre of water.

### **APPLICATION**

### **REQUIRED CHLORINE DIOXIDE LEVEL**

|   |             |
|---|-------------|
| Drinking water treatment                            | 5 -10 ppm   |
| Food processing, Dairy, Breweries industries        | 50 -100 ppm |
| Disinfection wall & ceiling                         | 500 ppm     |
| Foot bath   | 1000 ppm    |
| Vegetable Rinse                                     | 5 ppm       |
| Fruits & vegetable to extend freshness & shelf life | 1 ppm       |
| Odor control in ice making plant/machinery          | 20 ppm      |

## **ADVANTAGES**

1. High antibacterial broad spectrum activity at low concentrations
2. Rapid activity hence requires less contact time
3. Safe, non toxic and easy to use
4. Environment friendly
5. Effective against bio-films
6. Biocidal activity over a wide pH range
7. Very economical

## **PRECAUTIONS FOR STOCK SOLUTION**

1. Avoid direct exposure of the solution to heat and light, keep in a cool shady place
2. Use the prepared stock solution within 48 hours
3. During preparation of the stock solution use **INSTA-DIOX** followed by water and then the activator in that order.