

# Macrosol

## Macrogol & Electrolytes

### **Presentation:**

Each 25 ml of concentrated oral solution contains Macrogol (3350) BP 13.125 gm, Sodium Bicarbonate BP 178.500 mg, Sodium Chloride BP 350.700 mg, Potassium Chloride BP 46.600 mg.

### **Pharmacology:**

Macrogol (3350) exerts an osmotic action in the gut, which induces a laxative effect. Macrogol (3350) increases the stool volume, which triggers colon motility via neuromuscular pathways. The physiological consequence is an improved propulsive colonic transportation of the soften stools and a facilitation of the defecation. Electrolytes combined with Macrogol (3350) are exchanged across the intestinal barrier (mucosa) with serum electrolytes and excreted without net gain or loss of sodium, potassium and water. Macrogol (3350) is unchanged along the gut. It is virtually unabsorbed from the gastrointestinal tract.

### **Indications:**

For effective relief from occasional constipation and chronic constipation. Also effective in resolving faecal impaction, defined as refractory constipation with faecal loading of the rectum and colon.

### **Pharmacokinetic:**

Macrogol 3350 is unchanged along the gut. It is virtually unabsorbed from the gastrointestinal tract. Any Macrogol 3350 that is absorbed is excreted via the urine.

### **Precautions:**

This medicinal product contains 8.125 mmol of sodium in each dose of 125 ml. The sodium content of oral solution should be taken into consideration when administering the product to patients on a controlled sodium diet.

### **Dosage and Administration:**

**Constipation:** The dose is 25 ml daily. This may be increased to 50-75 ml daily, if required according to individual response.

### **Faecal Impaction:**

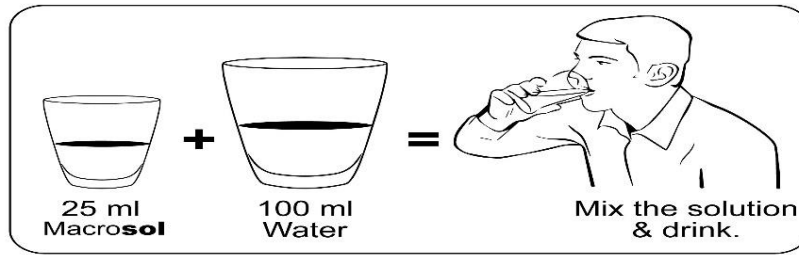
8 doses of 25 ml daily. A course of treatment for faecal impaction does not normally exceed 3 days.

### **Patients with renal insufficiency:**

No dosage change is necessary for treatment of either constipation or faecal impaction.

### **Direction of use:**

Each 25 ml should be dissolved in 100 ml water. Discard any solution not used within 6 hours.

**Side Effects:**

In the treatment of chronic constipation, diarrhoea or loose stools normally respond to a reduction in dose. Diarrhoea, abdominal distension, anorectal discomfort and mild vomiting are more often observed during the treatment for faecal impaction. Vomiting may be resolved if the dose is reduced or delayed.

**Drug Interactions:**

There is a possibility that the absorption of other medicinal products could be transiently reduced during use with MacroSol oral solution. There have been isolated reports of decreased efficacy with some concomitantly administered medicinal products, e.g. anti-epileptics.

**Contraindications:**

Intestinal perforation or obstruction due to structural or functional disorder of the gut wall, ileus, severe inflammatory conditions of the intestinal tract, such as Crohn's disease and ulcerative colitis and toxic mega colon. Hypersensitivity to the active substances.

**Pregnancy:**

No effects during pregnancy are anticipated, since systemic exposure to MacroSol 3350 is negligible. MacroSol can be used during pregnancy.

**Lactation:**

No effects on the breastfed newborn/infant are anticipated since the systemic exposure of the breast-feeding woman to MacroSol 3350 is negligible. MacroSol can be used during breast-feeding.

**Pharmaceutical Precautions:**

Store at below 30°C in a dry place, protected from light. Keep out of reach of children.

**Commercial pack:**

MacroSol oral Solution: Each box contains 100 ml concentrated oral solution in PET bottle with a measuring cup.

**Manufactured By:**

POPULAR PHARMACEUTICALS LTD.  
TONGI, GAZIPUR, BANGLADESH