

## SUMMARY OF PRODUCT CHARACTERISTICS

### 1. Name of the medicinal product

Chlorpheniramine 2 mg/5 mL oral solution  
Chlormine

### 2. Qualitative and quantitative composition

Each mL of solution contains 0.4 mg of chlorpheniramine.  
Each mL of solution contains 2 mg sodium benzoate.

#### Excipients with known effect

Each mL also contains 0.6 mL of sucrose, 0.2 mL of glucose, 1.8 mg of aspartame and 30 mg of propylene glycol (see section 4.4).

For the full list of excipients, see section 6.1.

### 3. Pharmaceutical form

Oral solution.

Clear, reddish pink solution.

### 4. Clinical particulars

#### 4.1 Therapeutic indications

Chlorpheniramine is indicated for the symptomatic control of all allergic conditions responsive to antihistamines, including hay fever, vasomotor rhinitis, urticaria, angioneurotic oedema, food allergy, drug and serum reactions, and insect bites. Chlorpheniramine is also indicated for the symptomatic relief of itch associated with chickenpox.

#### 4.2 Posology and method of administration

##### Posology

Do not exceed the stated dose or frequency of dosing.

##### *Adults and Children 12 years and over*

10ml (4mg) every 4 to 6 hours. Maximum daily dose: 60ml (24mg) in any 24 hours.

##### *Elderly*

The elderly are more likely to experience neurological anticholinergic effects. Consideration should be given to using a lower daily dose (e.g., a maximum of 12 mg in any 24 hours).

##### *Children aged 6 - 12 years*

5ml (2mg) every 4 to 6 hours. Maximum daily dose: 30ml (12mg) in any 24 hours.

##### *Children aged 2 - 6 years*

2.5ml (1mg) every 4 to 6 hours. Maximum daily dose: 15ml (6mg) in any 24 hours.

##### *Children aged 1 - 2 years*

2.5ml (1mg) twice daily. The minimum interval between the doses should be 4 hours.  
Maximum daily dose: 5ml (2mg) in any 24 hours.

*Not recommended for children below 1 year.*

#### **Method of administration**

Oral administration only.

#### **4.3 Contraindications**

Hypersensitivity to chlorpheniramine maleate, any other antihistamines or any of the excipients listed in section 6.1.

The anticholinergic properties of chlorpheniramine are intensified by monoamine oxidase inhibitors (MAOIs). Chlorpheniramine is therefore contraindicated in patients who have been treated with MAOIs within the last fourteen days.

#### **4.4 Special warnings and precautions for use**

Chlorpheniramine, in common with other drugs having anticholinergic effects, should be used with caution in epilepsy; raised intra-ocular pressure including glaucoma; prostatic hypertrophy; severe hypertension or cardiovascular disease; bronchitis, bronchiectasis or asthma; hepatic impairment; renal impairment.

Children and the elderly are more likely to experience neurological anticholinergic effects and paradoxical excitation (e.g., increased energy, restlessness, nervousness).

The anticholinergic properties of chlorpheniramine may cause drowsiness, dizziness, blurred vision and psychomotor impairment in some patients which may seriously affect the ability to drive and use machinery.

The effects of alcohol may be increased and therefore concurrent use should be avoided. Should not be used with other antihistamine-containing products, including antihistamine-containing cough and cold medicines.

#### *Excipients*

This medicine contains **glucose** and **sucrose**. Patients with rare hereditary problems of fructose intolerance, glucose-galactose malabsorption or sucrase-isomaltase insufficiency should not take this medicine.

This medicine contains **aspartame**. Aspartame is a source of phenylalanine which may be harmful for patients with phenylketonuria (PKU).

This medicine also contains **propylene glycol**. Co-administration with any substrate for alcohol dehydrogenase such as ethanol may induce adverse effects in children less than 5 years old. Administration of propylene glycol to pregnant or lactating patients should be considered on a case-by-case basis. Medical monitoring is required in patients with impaired renal or hepatic functions because various adverse events attributed to propylene glycol have been reported such as renal dysfunction (acute tubular necrosis), acute renal failure and liver dysfunction.

## **4.5 Interaction with other medicinal products and other forms of interaction**

### *Anxiolytics and Hypnotics*

concurrent use of chlorpheniramine and hypnotics or anxiolytics may cause an increase in sedative effects, therefore medical advice should be sought before taking chlorpheniramine concurrently with these medicines.

### *Antiepileptics*

Chlorpheniramine inhibits phenytoin metabolism and can lead to phenytoin toxicity.

### *Antidepressants*

The anticholinergic effects of chlorpheniramine are intensified by MAOIs (see section 4.3 contraindications).

## **4.6 Pregnancy and lactation**

### **Pregnancy**

There is no adequate data on the use of chlorpheniramine in pregnant women. The potential risk for humans is unknown. Use during the third trimester may result in reactions in the newborn or premature neonates. Not to be used during pregnancy unless considered essential by a physician.

### **Breastfeeding**

Chlorpheniramine maleate and other antihistamines may inhibit lactation and may be secreted in breast milk. Not to be used during lactation unless considered essential by a physician.

No fertility data is available.

## **4.7 Effects on the ability to drive and use machines**

Chlorpheniramine may have a moderate influence on the ability to drive and use machines. The anticholinergic properties of chlorpheniramine may cause drowsiness, dizziness, blurred vision and psychomotor impairment, which can seriously hamper the patient's ability to drive or use machinery.

## **4.8 Undesirable effects**

Specific estimation of the frequency of adverse events for OTC products is inherently difficult (particularly numerator data). Adverse reactions which have been observed in clinical trials and which are considered to be common (occurring in  $\geq 1\%$  to  $< 10\%$  of subjects) or very common (occurring in  $\geq 10\%$  of subjects) are listed below by MedDRA System Organ Class. The frequency of other adverse events identified during post-marketing use is unknown.

### **Blood and lymphatic system disorders**

Unknown: haemolytic anaemia, blood dyscrasias

### **Immune system disorders**

Unknown: allergic reaction, angioedema, anaphylactic reactions

**Metabolism and nutritional disorders**

Unknown: anorexia

**Psychiatric disorders**

Unknown: confusion\*, excitation\*, irritability\*, nightmares\*, depression

**Nervous system disorders\***

Very common: sedation, somnolence

Common: disturbance in attention, abnormal coordination, dizziness, headache

**Eye disorders**

Common: blurred vision

**Ear and labyrinth disorders**

Unknown: tinnitus

**Cardiac disorders**

Unknown: palpitations, tachycardia, arrhythmias

**Vascular disorders**

Unknown: hypotension

**Respiratory, thoracic and mediastinal disorders**

Unknown: thickening of bronchial secretions

**Gastrointestinal disorders**

Common: nausea, dry mouth

Unknown: vomiting, abdominal pain, diarrhoea, dyspepsia

**Hepatobiliary disorders**

Unknown: hepatitis including jaundice

**Skin and subcutaneous tissue disorders**

Unknown: exfoliative dermatitis, rash, urticaria, photosensitivity

**Musculoskeletal and connective tissue disorders**

Unknown: muscular twitching, muscle weakness

**Renal and urinary disorders**

Unknown: urinary retention

**General disorders and administration site conditions**

Common: fatigue Unknown: chest tightness

\*Children and the elderly are more susceptible to neurological anticholinergic effects and paradoxical excitation (e.g., increased energy, restlessness, nervousness)

**Reporting of suspected adverse reactions**

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the

e-PV desktop applications  
([https://drive.google.com/file/d/16hwTz0587ZWtSWadbBAMwQPOD\\_KSExZP/view](https://drive.google.com/file/d/16hwTz0587ZWtSWadbBAMwQPOD_KSExZP/view)) or search for e-PV Mobile applications on Google Play or Apple App Store.

## 4.9 Overdose

### *Symptoms*

The estimated lethal dose of chlorpheniramine is 25 to 50mg/kg body weight. Symptoms and signs include sedation, paradoxical excitation of the CNS, toxic psychosis, convulsions, apnoea, anticholinergic effects, dystonic reactions and cardiovascular collapse including arrhythmias.

### *Treatment*

Symptomatic and supportive measures should be provided with special attention to cardiac, respiratory, renal and hepatic functions and fluid and electrolyte balance. If overdose is by the oral route, treatment with activated charcoal should be considered provided there are no contraindications for use and the overdose has been taken recently (treatment is most effective if given within an hour of ingestion). Treat hypotension and arrhythmias vigorously. CNS convulsions may be treated with i.v. diazepam. Haemoperfusion may be used in severe cases.

## 5. Pharmacological properties

### 5.1 Pharmacodynamic properties

Pharmacological classification: 5. Antihistamines.

Chlorpheniramine is a potent antihistamine (H<sub>1</sub>-antagonist).

Antihistamines diminish or abolish the actions of histamine in the body by competitive reversible blockade of histamine H<sub>1</sub>-receptor sites on tissues. Chlorpheniramine also has anticholinergic activity.

Antihistamines act to prevent the release of histamine, prostaglandins and leukotrienes and have been shown to prevent the migration of inflammatory mediators. The actions of chlorpheniramine include inhibition of histamine on smooth muscle, capillary permeability and hence reduction of oedema and wheal in hypersensitivity reactions such as allergy and anaphylaxis.

### 5.2 Pharmacokinetic properties

Chlorpheniramine is well absorbed from the gastro-intestinal tract, following oral administration. The effects develop within 30 minutes, are maximal within 1 to 2 hours and last 4 to 6 hours. The plasma half-life has been estimated to be 12 to 15 hours.

Chlorpheniramine is metabolised to the monodesmethyl and didesmethyl derivatives. About 22% of an oral dose is excreted unchanged in the urine.

### 5.3 Preclinical safety data

No data is available.

## **6. Pharmaceutical particulars**

### **6.1 List of excipients**

Sucrose  
Liquid glucose  
Sodium benzoate  
Anhydrous citric acid  
Sodium citrate  
Aspartame  
Propylene glycol  
Essence sweet cherry  
Purified water

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf life**

36 months.

### **6.4 Special precautions for storage**

Store below 30°C.

### **6.5 Nature and contents of the container**

A USP type 1 amber glass bottle with a 25 mm “LPL logo” and a printed polypropylene cap with a 10 ml plastic measuring cup.

Fill volume: 100 ml.

### **6.6 Special precautions for disposal and other handling**

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

## **7. APPLICANT**

Lincoln Pharmaceuticals Limited  
Lincoln House, Science City Road, Sola  
Ahmedabad - 380 060  
Gujarat  
India

## **8. MANUFACTURER**

Lincoln Pharmaceuticals Limited  
Trimul Estate, Khatraj, Tal. Kalol  
Dist. Gandhinagar  
Gujarat  
India

## **9. REGISTRATION DETAILS**

Zimbabwe registration number: 2023/5/6429  
Zimbabwe category for distribution: Pharmacy Medicines (P.)

**10. DATE OF REVISION OF THE TEXT**  
October 2023