

# Munil®

## Bromhexine Hydrochloride

### Description

Bromhexine Hydrochloride (**Munil®**) is a highly effective mucolytic expectorant.

### Mode of action

Bromhexine Hydrochloride (**Munil®**) is an oral mucolytic agent with a low level of associated toxicity. Bromhexine acts on the mucus at the formative stages in the glands, within the mucus-secreting cells. Bromhexine disrupts the structure of acid mucopolysaccharide fibres in mucoid sputum and produces a less viscous mucus, which is easier to expectorate.

### Pharmacokinetics

Bromhexine Hydrochloride is rapidly absorbed from the gastrointestinal tract and undergoes extensive first-pass metabolism in the liver. It's oral bioavailability is stated to be only about 20%. It is widely distributed to body tissues and is highly bound to plasma proteins. About 85% to 90% of a dose is excreted in the urine mainly as metabolites. It's elimination half-life is about 12 hours. Bromhexine crosses the blood brain barrier and small amounts cross the placenta.

### Composition

**Munil® 100 ml Syrup:** Each 5 ml contains Bromhexine Hydrochloride BP 4 mg.

### Indications

Bromhexine is indicated for the treatment of respiratory disorders associated with productive cough. These include: tracheobronchitis, bronchitis with emphysema, bronchiectasis, bronchitis with bronchospasm, chronic inflammatory pulmonary conditions and pneumoconiosis.

### Dosage & administration

**Syrup:** Adults and children over 10 years: 2-4 teaspoonfuls 3 times daily. Initially 4 teaspoonfuls 3 times daily and then as required. Children 5-10 years: 1 teaspoonful 3 times daily. Children 2-5 years:  $\frac{1}{2}$  teaspoonful 3 times daily. Children under 2 years:  $\frac{1}{4}$  teaspoonful 3 times daily.

### Contraindications

Hypersensitive to bromhexine hydrochloride.

### Side effects

Gastrointestinal side effects may occur occasionally with bromhexine and a transient rise in serum aminotransferase values has been reported. Other reported adverse effects include headache, dizziness, sweating and skin rash.

### Use in pregnancy & lactation

Use of bromhexine is not recommended during pregnancy and lactation.

### Precautions

Since mucolytics may disrupt the gastric mucosa, bromhexine should be used with care in patients with a history of peptic ulceration. Care is also advisable in asthmatic patients.

### Drug interactions

There are no known significant interactions with other drugs.

### Storage

Store in a cool and dry place, protected from light.

### Packaging

**Munil® 100 ml Syrup:** Each carton contains a bottle having 100 ml syrup.



Manufactured by  
**Opsonin Pharma Limited**  
Rupatali, Barishal, Bangladesh.  
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