**Summary of Product Characteristics** 

Product Name: Omeprazole capsules 20mg

**Brand Name: Omicap-20** 



# **SUMMARY OF PRODUCT CHARACTERISTICS**

#### 1. NAME OF THE MEDICINAL PRODUCT

#### 1.1 Product Name:

Omeprazole capsules

Omicap

# 1.2 Strength

20mg

# 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each capsule contains:

Omeprazole BP ......20mg

(As enteric coated granules)

# 3. PHARMACEUTICAL FORM

Capsules

Brown/Light Pink coloured '2' size hard gelatin capsules with "MICRO/MICRO" printed on capsule shells containing almost white coloured pellets.

#### 4. CLINICAL PARTICULARS

## 4.1 Therapeutic indications

Omeprazole capsule is indicated in adults and children aged over 1 year of age and  $\geq$  10 kg.

Omeprazole capsule gastro-resistant capsules, hard are indicated for:

#### Adults

- Treatment of duodenal ulcers
- Prevention of relapse of duodenal ulcers
- Treatment of gastric ulcers

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- Prevention of relapse of gastric ulcers In combination with appropriate antibiotics,
  Helicobacter pylori (H. pylori) eradication in peptic ulcer disease
- Treatment of NSAID-associated gastric and duodenal ulcers
- Prevention of NSAID-associated gastric and duodenal ulcers in patients at risk
- Treatment of reflux esophagitis
- Long-term management of patients with healed reflux esophagitis
- Treatment of symptomatic gastro-oesophageal reflux disease
- Treatment of Zollinger-Ellison syndrome

Paediatric population

Children over 1 year of age and  $\geq 10 \text{ kg}$ 

- Treatment of reflux esophagitis
- Symptomatic treatment of heartburn and acid regurgitation in gastro-oesophageal reflux disease

Children and adolescents over 4 years of age

• In combination with antibiotics in treatment of duodenal ulcer caused by H. pylori

## 4.2 Posology and method of administration

Posology

Adults

## Treatment of duodenal ulcers

The recommended dose in patients with an active duodenal ulcer is Omeprazole 20 mg capsule once daily. In most patients healing occurs within two weeks. For those patients who may not be fully healed after the initial course, healing usually occurs during a further two weeks treatment period. In patients with poorly responsive duodenal ulcer Omeprazole 40 mg capsule once daily is recommended and healing is usually achieved within four weeks.

Prevention of relapse of duodenal ulcers

For the prevention of relapse of duodenal ulcer in *H. pylori* negative patients or when *H. pylori* eradication is not possible the recommended dose is Omeprazole 20 mg capsule once daily. In

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some patients a daily dose of 10 mg may be sufficient. In case of therapy failure, the dose can be

increased to 40 mg.

Treatment of gastric ulcers

The recommended dose is Omeprazole 20 mg capsule once daily. In most patients healing occurs

within four weeks. For those patients who may not be fully healed after the initial course, healing

usually occurs during a further four weeks treatment period. In patients with poorly responsive

gastric ulcer Omeprazole 40 mg capsule once daily is recommended and healing is usually

achieved within eight weeks.

Prevention of relapse of gastric ulcers

For the prevention of relapse in patients with poorly responsive gastric ulcer the recommended

dose is Omeprazole 20 mg capsule once daily. If needed the dose can be increased to

Omeprazole 40 mg capsule once daily.

H. pylori eradication in peptic ulcer disease

For the eradication of *H. pylori* the selection of antibiotics should consider the individual

patient's drug tolerance, and should be undertaken in accordance with national, regional and local

resistance patterns and treatment guidelines.

• Omeprazole 20 mg capsule + clarithromycin 500 mg + amoxicillin 1,000 mg, each twice daily

for one week, or

• Omeprazole 20 mg capsule + clarithromycin 250 mg (alternatively 500 mg) + metronidazole

400 mg (or 500 mg or tinidazole 500 mg), each twice daily for one week or

• Omegrazole 40 mg capsule once daily with amoxicillin 500 mg and metronidazole 400 mg (or

500 mg or tinidazole 500 mg), both three times a day for one week.

In each regimen, if the patient is still *H. pylori* positive, therapy may be repeated.

*Treatment of NSAID-associated gastric and duodenal ulcers* 

For the treatment of NSAID-associated gastric and duodenal ulcers, the recommended dose is

Omeprazole 20 mg capsule once daily. In most patients healing occurs within four weeks. For

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those patients who may not be fully healed after the initial course, healing usually occurs during a further four weeks treatment period.

## Prevention of NSAID-associated gastric and duodenal ulcers in patients at risk

For the prevention of NSAID-associated gastric ulcers or duodenal ulcers in patients at risk (age> 60, previous history of gastric and duodenal ulcers, previous history of upper GI bleeding) the recommended dose is Omeprazole 20 mg capsule once daily.

# Treatment of reflux esophagitis

The recommended dose is Omeprazole 20 mg capsule once daily. In most patients healing occurs within four weeks. For those patients who may not be fully healed after the initial course, healing usually occurs during a further four weeks treatment period.

In patients with severe esophagitis Omeprazole 40 mg capsule once daily is recommended and healing is usually achieved within eight weeks.

## Long-term management of patients with healed reflux esophagitis

For the long-term management of patients with healed reflux esophagitis the recommended dose is Omeprazole 10 mg once daily. If needed, the dose can be increased to Omeprazole 20-40 mg once daily.

## Treatment of symptomatic gastro-oesophageal reflux disease

The recommended dose is Omeprazole 20 mg capsule daily. Patients may respond adequately to 10 mg daily, and therefore individual dose adjustment should be considered.

If symptom control has not been achieved after four weeks treatment with Omeprazole 20 mg capsule daily, further investigation is recommended.

# Treatment of Zollinger-Ellison syndrome

In patients with Zollinger-Ellison syndrome the dose should be individually adjusted and treatment continued as long as clinically indicated. The recommended initial dose is Omeprazole

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60 mg capsule daily. All patients with severe disease and inadequate response to other therapies have been effectively controlled and more than 90% of the patients maintained on doses of Omeprazole 20-120 mg capsule daily. When dose exceed Omeprazole 80 mg capsule daily, the dose should be divided and given twice daily.

## Special populations

Impaired renal function

Dose adjustment is not needed in patients with impaired renal function.

*Impaired hepatic function* 

In patients with impaired hepatic function a daily dose of 10–20 mg may be sufficient.

*Elderly (> 65 years old)* 

Dose adjustment is not needed in the elderly.

### Method of administration

It is recommended to take Omeprazole capsule in the morning, preferably without food, swallowed whole with half a glass of water. The capsules must not be chewed or crushed.

For patients with swallowing difficulties and for children who can drink or swallow semi-solid food

Patients can open the capsule and swallow the contents with half a glass of water or after mixing the contents in a slightly acidic fluid e.g., fruit juice or applesauce, or in non-carbonated water. Patients should be advised that the dispersion should be taken immediately (or within 30 minutes) and always be stirred just before drinking and rinsed down with half a glass of water.

Alternatively patients can suck the capsule and swallow the pellets with half a glass of water. The enteric-coated pellets must not be chewed.

## 4.3 Contraindications

Hypersensitivity to omeprazole, substituted benzimidazoles or to any of the excipients Omeprazole like other proton pump inhibitors (PPIs) must not be used concomitantly with nelfinavir.

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# 4.4 Special warnings and precautions for use

In the presence of any alarm symptom (e.g. significant unintentional weight loss, recurrent vomiting, dysphagia, hematemesis or melena) and when gastric ulcer is suspected or present, malignancy should be excluded, as treatment may alleviate symptoms and delay diagnosis.

Co-administration of Atazanavir with proton pump inhibitors is not recommended. If the combination of Atazanavir with a proton pump inhibitor is judged unavoidable, close clinical monitoring (e.g virus load) is recommended in combination with an increase in the dose of Atazanavir to 400 mg with 100 mg of ritonavir; omeprazole 20 mg should not be exceeded.

Omeprazole, as all acid-blocking medicines, may reduce the absorption of vitamin  $B_{12}$  (cyanocobalamin) due to hypo- or achlorhydria. This should be considered in patients with reduced body stores or risk factors for reduced vitamin  $B_{12}$  absorption on long-term therapy.

Omeprazole is a CYP2C19 inhibitor. When starting or ending treatment with omeprazole, the potential for interactions with drugs metabolised through CYP2C19 should be considered. An interaction is observed between Clopidogrel and omeprazole. The clinical relevance of this interaction is uncertain. As a precaution, concomitant use of omeprazole and Clopidogrel should be discouraged.

Proton pump inhibitors, especially if used in high doses and over long durations (>1 year), may modestly increase the risk of hip, wrist and spine fracture, predominantly in the elderly or in presence of other recognised risk factors. Observational studies suggest that proton pump inhibitors may increase the overall risk of fracture by 10–40%. Some of this increase may be due to other risk factors. Patients at risk of osteoporosis should receive care according to current clinical guidelines and they should have an adequate intake of vitamin D and calcium.

#### Hypomagnesaemia

Severe hypomagnesaemia has been reported in patients treated with PPIs like omeprazole for at least three months, and in most cases for a year. Serious manifestations of hypomagnesaemia such as fatigue, tetany, delirium, convulsions, dizziness and ventricular arrhythmia can occur but they may begin insidiously and be overlooked. In most affected patients, hypomagnesaemia improved after magnesium replacement and discontinuation of the PPI.

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For patients expected to be on prolonged treatment or who take PPIs with digoxin or drugs that may cause hypomagnesaemia (e.g., diuretics), health care professionals should consider measuring magnesium levels before starting PPI treatment and periodically during treatment.

# Interference with laboratory tests

Increased CgA (Chromogranin A) level may interfere with investigations for neuroendocrine tumours. To avoid this interference the omeprazole treatment should be temporarily stopped five days before CgA measurements

## Paediatric population

Some children with chronic illnesses may require long-term treatment although it is not recommended.

Treatment with proton pump inhibitors may lead to slightly increased risk of gastrointestinal infections such as *Salmonella* and *Campylobacter*.

As in all long-term treatments, especially when exceeding a treatment period of 1 year, patients should be kept under regular surveillance.

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

Effects of omeprazole on the pharmacokinetics of other active substances

Active substances with pH dependent absorption

The decreased intragastric acidity during treatment with omeprazole might increase or decrease the absorption of active substances with a gastric pH dependent absorption.

Nelfinavir, Atazanavir

The plasma levels of nelfinavir and Atazanavir are decreased in case of co-administration with omeprazole.

Concomitant administration of omeprazole with nelfinavir is contraindicated. Co-administration of omeprazole (40 mg once daily) reduced mean nelfinavir exposure by ca. 40% and the mean exposure of the pharmacologically active metabolite M8 was reduced by ca. 75 –90%. The interaction may also involve CYP2C19 inhibition.

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Concomitant administration of omeprazole with Atazanavir is not recommended.

Concomitant administration of omeprazole (40 mg once daily) and Atazanavir 300 mg/ritonavir 100 mg to healthy volunteers resulted in a 75% decrease of the Atazanavir exposure. Increasing the Atazanavir dose to 400 mg did not compensate for the impact of omeprazole on Atazanavir exposure. The co-administration of omeprazole (20 mg once daily) with Atazanavir 400 mg/ritonavir 100 mg to healthy volunteers resulted in a decrease of approximately 30% in the Atazanavir exposure as compared to Atazanavir 300 mg/ritonavir 100 mg once daily.

Digoxin

Concomitant treatment with omeprazole (20 mg daily) and digoxin in healthy subjects increased the bioavailability of digoxin by 10%. Digoxin toxicity has been rarely reported. However caution should be exercised when omeprazole is given at high doses in elderly patients. Therapeutic drug monitoring of digoxin should be then be reinforced.

Clopidogrel

In a crossover clinical study, Clopidogrel (300 mg loading dose followed by 75 mg/day) alone and with omeprazole (80 mg at the same time as Clopidogrel) were administered for 5 days. The exposure to the active metabolite of Clopidogrel was decreased by 46% (Day 1) and 42% (Day 5) when Clopidogrel and omeprazole were administered together. Mean inhibition of platelet aggregation (IPA) was diminished by 47% (24 hours) and 30% (Day 5) when Clopidogrel and omeprazole were administered together. In another study it was shown that administering Clopidogrel and omeprazole at different times did not prevent their interaction that is likely to be driven by the inhibitory effect of omeprazole on CYP2C19. Inconsistent data on the clinical implications of this PK/PD interaction in terms of major cardiovascular events have been reported from observational and clinical studies.



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Other active substances

The absorption of posaconazole, erlotinib, ketoconazole and itraconazole is significantly reduced

and thus clinical efficacy may be impaired. For posaconazole and erlotinib concomitant use

should be avoided.

Active substances metabolised by CYP2C19

Omeprazole is a moderate inhibitor of CYP2C19, the major omeprazole metabolising enzyme.

Thus, the metabolism of concomitant active substances also metabolised by CYP2C19, may be

decreased and the systemic exposure to these substances increased. Examples of such drugs are

R-warfarin and other vitamin K antagonists, cilostazol, diazepam and phenytoin.

Cilostazol

Omeprazole, given in doses of 40 mg to healthy subjects in a cross-over study, increased C<sub>max</sub>

and AUC for cilostazol by 18% and 26% respectively, and one of its active metabolites by 29%

and 69% respectively.

Phenytoin

Monitoring phenytoin plasma concentration is recommended during the first two weeks after

initiating omeprazole treatment and, if a phenytoin dose adjustment is made, monitoring and a

further dose adjustment should occur upon ending omeprazole treatment.

Unknown mechanism

Saquinavir

Concomitant administration of omeprazole with saquinavir/ritonavir resulted in increased plasma

levels up to approximately 70% for saquinavir associated with good tolerability in HIV-infected

patients.

**Tacrolimus** 

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Concomitant administration of omeprazole has been reported to increase the serum levels of

tacrolimus. A reinforced monitoring of tacrolimus concentrations as well as renal function

(creatinine clearance) should be performed, and dosage of tacrolimus adjusted if needed.

Methotrexate

When given together with proton-pump inhibitors, methotrexate levels have been reported to

increase in some patients. In high-dose methotrexate administration a temporary withdrawal of

omeprazole may need to be considered."

Effects of other active substances on the pharmacokinetics of omeprazole

Inhibitors CYP2C19 and/or CYP3A4

Since omegrazole is metabolised by CYP2C19 and CYP3A4, active substances known to inhibit

CYP2C19 or CYP3A4 (such as clarithromycin and voriconazole) may lead to increased

omeprazole serum levels by decreasing omeprazole's rate of metabolism. Concomitant

voriconazole treatment resulted in more than doubling of the omeprazole exposure. As high

doses of omegrazole have been well-tolerated adjustment of the omegrazole dose is not generally

required. However, dose adjustment should be considered in patients with severe hepatic

impairment and if long-term treatment is indicated.

Inducers of CYP2C19 and/or CYP3A4

Active substances known to induce CYP2C19 or CYP3A4 or both (such as rifampicin and St

John's wort) may lead to decreased omeprazole serum levels by increasing omeprazole's rate of

metabolism.

4.6 Pregnancy and lactation

**Pregnancy** 

Results from three prospective epidemiological studies (more than 1000 exposed outcomes)

indicate no adverse effects of omegrazole on pregnancy or on the health of the foetus/new-born

child. Omeprazole can be used during pregnancy.

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#### Lactation

Omeprazole is excreted in breast milk but is not likely to influence the child when therapeutic doses are used.

# 4.7 Effects on ability to drive and use machines

Omeprazole capsule is not likely to affect the ability to drive or use machines. Adverse drug reactions such as dizziness and visual disturbances may occur. If affected, patients should not drive or operate machinery.

## 4.8 Undesirable effects

The most common side effects (1-10% of patients) are headache, abdominal pain, constipation, diarrhoea, flatulence and nausea/vomiting.

The following adverse drug reactions have been identified or suspected in the clinical trials programme for omeprazole and post-marketing.

None was found to be dose-related. Adverse reactions listed below are classified according to frequency and System Organ Class (SOC). Frequency categories are defined according to the following convention: Very common ( $\geq 1/10$ ), Common ( $\geq 1/100$  to < 1/10), Uncommon ( $\geq 1/1000$ ), Rare ( $\geq 1/1000$ ), Rare ( $\geq 1/10000$ ), Very rare (< 1/10000), Not known (cannot be estimated from the available data).

SOC/frequency	Adverse reaction	
Blood and lymphatic system disorders		
Rare:	Leukopenia, thrombocytopenia	
Very rare:	Agranulocytosis, pancytopenia	
Immune system disorde	ers	
Rare:	Hypersensitivity reactions e.g. fever, angioedema and anaphylactic reaction/shock	
Metabolism and nutrition disorders		

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Rare:	Hyponatraemia	
Not known	Hypomagnesaemia	
Psychiatric disorders		
Uncommon:	Insomnia	
Rare:	Agitation, confusion, depression	
Very rare:	Aggression, hallucinations	
Nervous system disorders		
Common:	Headache	
Uncommon:	Dizziness, paraesthesia, somnolence	
Rare:	Taste disturbance	
Eye disorders		
Rare:	Blurred vision	
Ear and labyrinth disorders		
Uncommon:	Vertigo	
Respiratory, thoracic and med	liastinal disorders	
Rare:	Bronchospasm	
Gastrointestinal disorders		
Common:	Abdominal pain, constipation, diarrhoea, flatulence,	
	nausea/vomiting	
Rare:	Dry mouth, stomatitis, gastrointestinal candidiasis	
Not known:	Microscopic colitis	
Hepatobiliary disorders		
Uncommon:	Increased liver enzymes	
Rare:	Hepatitis with or without jaundice	

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Very rare:	Hepatic failure, encephalopathy in patients with pre-existing	
	liver disease	
Skin and subcutaneous tissue disorders		
Uncommon:	Dermatitis, pruritus, rash, urticaria	
Rare:	Alopecia, photosensitivity	
Very rare:	Erythema multiform, Stevens-Johnson syndrome, toxic	
	epidermal necrolysis (TEN)	
Musculoskeletal and connective tissue disorders		
Uncommon	Fracture of the hip, wrist or spine	
Rare:	Arthralgia, myalgia	
Very rare:	Muscular weakness	
Renal and urinary disorders		
Rare:	Interstitial nephritis	
Reproductive system and breast disorders		
Very rare:	Gynaecomastia	
General disorders and administration site conditions		
Uncommon:	Malaise, peripheral oedema	
Rare:	Increased sweating	

# Paediatric population

The safety of omeprazole has been assessed in a total of 310 children aged 0 to 16 years with acid-related disease. There are limited long term safety data from 46 children who received maintenance therapy of omeprazole during a clinical study for severe erosive esophagitis for up to 749 days. The adverse event profile was generally the same as for adults in short- as well as in

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long-term treatment. There are no long term data regarding the effects of omeprazole treatment

on puberty and growth.

4.9 Overdose

(i) Symptoms

There is limited information available on the effects of overdoses of omeprazole in humans. In

the literature, doses of up to 560 mg have been described, and occasional reports have been

received when single oral doses have reached up to 2,400 mg omeprazole (120 times the usual

recommended clinical dose). Nausea, vomiting, dizziness, abdominal pain, diarrhoea and

headache have been reported. Also apathy, depression and confusion have been described in

single cases.

(ii) Treatment

The symptoms described have been transient, and no serious outcome has been reported. The

rate of elimination was unchanged (first order kinetics) with increased doses. Treatment, if

needed, is symptomatic.

5. PHARMACOLOGICAL PROPERTIES

**5.1 Pharmacodynamic properties** 

Omeprazole, a racemic mixture of two enantiomers reduces gastric acid secretion through a

highly targeted mechanism of action. It is a specific inhibitor of the acid pump in the parietal

cell. It is rapidly acting and provides control through reversible inhibition of gastric acid

secretion with once daily dosing.

Omeprazole is a weak base and is concentrated and converted to the active form in the highly

acidic environment of the intracellular canaliculi within the parietal cell, where it inhibits the

enzyme H<sup>+</sup> K<sup>+</sup>-ATPase - the acid pump. This effect on the final step of the gastric acid formation

process is dose-dependent and provides for highly effective inhibition of both basal acid

secretion and stimulated acid secretion, irrespective of stimulus.

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# **5.2 Pharmacokinetic properties**

#### **Absorption**

Omeprazole and omeprazole magnesium are acid labile and are therefore administered orally as enteric-coated granules in capsules or tablets. Absorption of omeprazole is rapid, with peak plasma levels occurring approximately 1-2 hours after dose. Absorption of omeprazole takes place in the small intestine and is usually completed within 3-6 hours. Concomitant intake of food has no influence on the bioavailability. The systemic availability (bioavailability) from a single oral dose of omeprazole is approximately 40%. After repeated once-daily administration, the bioavailability increases to about 60%.

#### Distribution

The apparent volume of distribution in healthy subjects is approximately 0.3 l/kg body weight. Omeprazole is 97% plasma protein bound.

# Biotransformation

Omeprazole is completely metabolised by the cytochrome P450 system (CYP). The major part of its metabolism is dependent on the polymorphically expressed CYP2C19, responsible for the formation of hydroxyomeprazole, the major metabolite in plasma. The remaining part is dependent on another specific isoform, CYP3A4, responsible for the formation of omeprazole sulphone. As a consequence of high affinity of omeprazole to CYP2C19, there is a potential for competitive inhibition and metabolic drug-drug interactions with other substrates for CYP2C19. However, due to low affinity to CYP3A4, omeprazole has no potential to inhibit the metabolism of other CYP3A4 substrates. In addition, omeprazole lacks an inhibitory effect on the main CYP enzymes.

Approximately 3% of the Caucasian population and 15-20% of Asian populations lack a functional CYP2C19 enzyme and are called poor metabolisers. In such individuals the metabolism of omeprazole is probably mainly catalysed by CYP3A4. After repeated once-daily administration of 20 mg omeprazole, the mean AUC was 5 to 10 times higher in poor metabolisers than in subjects having a functional CYP2C19 enzyme (extensive metabolisers).

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Mean peak plasma concentrations were also higher, by 3 to 5 times. These findings have no

implications for the posology of omeprazole.

Elimination

The plasma elimination half-life of omeprazole is usually shorter than one hour both after single

and repeated oral once-daily dosing. Omeprazole is completely eliminated from plasma between

doses with no tendency for accumulation during once-daily administration. Almost 80% of an

oral dose of omeprazole is excreted as metabolites in the urine, the remainder in the faeces,

primarily originating from bile secretion.

The AUC of omeprazole increases with repeated administration. This increase is dose-dependent

and results in a non-linear dose-AUC relationship after repeated administration. This time- and

dose-dependency is due to a decrease of first pass metabolism and systemic clearance probably

caused by an inhibition of the CYP2C19 enzyme by omeprazole and/or its metabolites (e.g. the

sulphone).

No metabolite has been found to have any effect on gastric acid secretion.

Special populations

Impaired hepatic function

The metabolism of omegrazole in patients with liver dysfunction is impaired, resulting in an

increased AUC. Omeprazole has not shown any tendency to accumulate with once daily dosing.

Impaired renal function

The pharmacokinetics of omeprazole, including systemic bioavailability and elimination rate, are

unchanged in patients with reduced renal function.

**Elderly** 

The metabolism rate of omeprazole is somewhat reduced in elderly subjects (75-79 years of age).

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Paediatric patients

During treatment with the recommended doses to children from the age of 1 year, similar plasma

concentrations were obtained as compared to adults. In children younger than 6 months,

clearance of omeprazole is low due to low capacity to metabolise omeprazole.

**5.3 Preclinical safety data** 

Gastric ECL-cell hyperplasia and carcinoids, have been observed in life-long studies in rats

treated with omeprazole. These changes are the result of sustained hypergastrinaemia secondary

to acid inhibition. Similar findings have been made after treatment with H<sub>2</sub>-receptor antagonists,

proton pump inhibitors and after partial fundectomy. Thus, these changes are not from a direct

effect of any individual active substance.

6. PHARMACEUTICAL PARTICULARS

**6.1** List of excipients

Hard gelatin capsules shells

**6.2 Incompatibilities** 

Not Applicable

6.3 Shelf life

The Shelf life is 24 months from the date of manufacture

**6.4 Special precautions for storage** 

Store below 30°C. Keep out of reach of children.

6.5 Nature and contents of container

Strip pack containing 10 capsules. Such 3 strips are packed in a carton along with pack insert.

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# 6.6 Special precautions for disposal and other handling

No Special requirements.

# 7. Marketing Authorization Holder:

MICRO LABS LIMITED

No.27, Race course road,

Bangalore-560001, Karnataka, India

Tel: + 080-22370451-51

Fax: 080-22370463

E-mail: exp@microlabs.in

Web site: www.microlabsltd.com

# 8. Marketing Authorization Numbers

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## 9. Date of first authorization

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## 10. Date of revision of the text

April 2019