GLIBENCLAMIDE AND METFORMIN HYDROCHLORIDE TABLETS, USP 2.5MG/400MG, 2.5MG/500MG, 5MG/500MG
TAJ PHARMA

1. NAME OF THE MEDICINAL PRODUCT

Glibenclamide and Metformin Hydrochloride Tablets, USP Taj Pharma 2.5mg/400mg
Glibenclamide and Metformin Hydrochloride Tablets, USP Taj Pharma 2.5mg/500mg
Glibenclamide and Metformin Hydrochloride Tablets, USP Taj Pharma 5mg/500mg

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

a) Each film-coated tablet contains:

Glibenclamide USP	2.5mg
Metformin Hydrochloride USP	400mg
Excipients	q.s.

b) Each film-coated tablet contains:

Glibenclamide USP	2.5mg
Metformin Hydrochloride USP	500mg
Excipients	q.s.

c) Each film-coated tablet contains:

Glibenclamide USP	5mg
Metformin Hydrochloride USP	500mg
Excipients	q.s.

3. PHARMACEUTICAL FORM

Film-coated tablet.

4. CLINICAL PARTICULARS

1.1 Therapeutic indications

Treatment of type 2 diabetes in adults, as replacement for previous combination therapy with metformin and glibenclamide in patients whose glycaemia is stable and well-controlled.

1.2 Posology and method of administration

Posology

Oral route.

For use in adults only.

General:

As for all hypoglycaemic agents, the dosage should be adapted according to the individual metabolic response (glycaemia, HbA1c).

Glibenclamide and Metformin Hydrochloride 500 mg/5 mg may preferentially be used in patients inadequately controlled with Glibenclamide and Metformin Hydrochloride 500 mg/2.5 mg.

Adults with normal renal function (GFR ≥ 90 mL/min)

Initiation of treatment:

Treatment should be initiated with a dose of the combination product equivalent to previous individual doses of metformin and glibenclamide; the dose being gradually increased depending on results on glycaemic parameters.
Dose titration:

The dosage should be adjusted every 2 weeks or longer, by increments of 1 tablet, depending on glycaemia results.

A gradual increase in the dosage may aid gastrointestinal tolerance and prevent the onset of hypoglycaemia.

Maximum daily recommended dose:

- The maximum daily recommended dose is 3 tablets of Glibenclamide and Metformin

Hydrochloride 500 mg/5 mg.

- In exceptional cases, an increase up to 4 tablets of Glibenclamide and Metformin Hydrochloride 500 mg/5 mg per day may be recommended.

Combination with insulin therapy:

No clinical data are available on the concomitant use of this product with insulin therapy.

Renal impairment
A GFR should be assessed before initiation of treatment with metformin containing products and at least annually thereafter. In patients at an increased risk of further progression of renal impairment and in the elderly, renal function should be assessed more frequently, e.g. every 3-6 months.

The maximum daily dose of metformin should preferably be divided into 2-3 daily doses. Factors that may increase the risk of lactic acidosis (see 4.4) should be reviewed before considering initiation of metformin in patients with GFR < 60 mL/min.

If no adequate strength of Glibenclamide and Metformin Hydrochloride is available, individual mono-components should be used instead of the fixed dose combination.

GFR mL/min	Metformin	Glibenclamide
60-89	Maximum daily dose is 3000 mg. Dose reduction may be considered in relation to declining renal function.	No dose reduction required.
45-59	Maximum daily dose is 2000 mg. The starting dose is at most half of the maximum dose.	Maximum daily dose is 10.5 mg.
30-44	Maximum daily dose is 1000 mg. The starting dose is at most half of the maximum dose.	Maximum daily dose is 10.5 mg. Initiation of therapy is not recommended due to the risk of hypoglycemia.
< 30	Metformin / glibenclamide are contraindicated	

Geriatric population:

The dosage of Glibenclamide and Metformin Hydrochloride should be adjusted depending on renal function parameters (start with 1 tablet of Glibenclamide and Metformin Hydrochloride 500 mg/2.5 mg); regular checks on the renal function are necessary (see section 4.4).
Patients aged 65 years and older: starting and maintenance doses of glibenclamide must be carefully adjusted to reduce the risk of hypoglycaemia. Treatment should be started with the lowest available dose and increased gradually if necessary (see section 4.4).

Paediatric population:

Glibenclamide and Metformin Hydrochloride is not recommended for use in children (see section 5.1).
Method of administration
The dosage regimen depends on the individual posology:

- Once a day, in the morning at breakfast, for a dosage of 1 tablet/day,
- Twice a day, morning and evening, for a dosage of 2 or 4 tablets/day,
- Three times a day, morning, noon and evening, for a dosage of 3 tablets/day.

The tablets should be taken with meals. The dosage regimen should be adjusted according to the individual eating habits. However, any intake must be followed by a meal with a sufficiently high carbohydrate content to prevent the onset of hypoglycaemic episodes.

When Glibenclamide and Metformin Hydrochloride is co-administered with a bile acid sequestrant, it is recommended that Glibenclamide and Metformin Hydrochloride should be administered at least 4 hours prior to the bile acid sequestrant in order to minimize the risk of reduced absorption (see section 4.5).

1.3 Contraindications

- hypersensitivity to metformin, glibenclamide or other sulphonylurea(s) and sulphonamide(s) or to any of the excipients listed in section 6.1;
- type 1 diabetes (insulin-dependent diabetes), diabetic pre-coma;
- any type of acute metabolic acidosis (such as lactic acidosis, diabetic ketoacidosis);
- severe renal failure (GFR < 30 mL/min);
- acute conditions with the potential to alter renal function such as: dehydration, severe infection, shock;
- disease which may cause tissue hypoxia (especially acute disease, or worsening of chronic disease) such as decompensated heart failure, respiratory failure, recent myocardial infarction, shock;
- hepatic insufficiency, acute alcohol intoxication, alcoholism;
- porphyria;
- lactation;
- in association with miconazole (see section 4.5).

Special warnings and precautions for use
Lactic acidosis
Blood sugar imbalance

In case of surgery or any other cause of diabetic decompensation, temporary insulin therapy should be envisaged instead of this treatment.
The symptoms of hyperglycaemia are: increased urinating, raging thirst and a dry skin.

Cardiac function

Patients with heart failure are more at risk of hypoxia and renal insufficiency. In patients with stable chronic heart failure, Glibenclamide and Metformin Hydrochloride may be used with a regular monitoring of cardiac and renal function.

For patients with acute and unstable heart failure, Glibenclamide and Metformin Hydrochloride is contraindicated (see section 4.3).

Renal function
GFR should be assessed before treatment initiation and regularly thereafter, see section 4.2. Metformin is contraindicated in patients with GFR < 30 mL/min and should be temporarily discontinued in the presence of conditions that alter renal function, see section 4.3.

Administration of iodinated contrast agents

Intravascular administration of iodinated contrast agents may lead to contrast induced nephropathy, resulting in metformin accumulation and an increased risk of lactic acidosis. Glibenclamide and Metformin Hydrochloride should be discontinued prior to or at the time of the imaging procedure and not restarted until at least 48 hours after, provided that renal function has been re-evaluated and found to be stable, see sections 4.2

and 4.5.

Concomitant use of glibenclamide with other medicinal products

The concomitant use of glibenclamide with alcohol, phenylbutazone or danazol is not recommended (see section 4.5).

Surgery
Glibenclamide and Metformin Hydrochloride must be discontinued at the time of surgery under general, spinal or epidural anaesthesia. Therapy may be restarted no earlier than 48 hours following surgery or resumption of oral nutrition and provided that renal function has been re-evaluated and found to be stable.

Other precautions

All patients should continue their diet, with a regular distribution of carbohydrate intake during the day. Overweight patients should continue their energy-restricted diet.

Regular physical exercise is as necessary as taking Glibenclamide and Metformin Hydrochloride.
The usual laboratory tests for diabetes monitoring (glycaemia, HbA1c) should be performed regularly,

Treatment of patients with G6PD-deficiency with sulphonylurea agents can lead to haemolytic anaemia. Since glibenclamide belongs to the chemical class of sulphonylurea drugs, caution is recommended when using Glibenclamide and Metformin Hydrochloride in patients with G6PD-deficiency and a non-sulphonylurea alternative may be considered.

Because this medicinal product contains lactose, it is contraindicated in case of congenital galactosemia, glucose and galactose malabsorption syndrome or in case of lactase deficiency.

4.2 Interaction with other medicinal products and other forms of interaction Contraindicated combination
Related to glibenclamide
Miconazole (systemic route, oromucosal gel): Increase in the hypoglycaemic effect with possible onset of hypoglycaemic manifestations, or even coma (see section 4.3).

Combinations not recommended
Related to sulphonylurea(s)

Alcohol:
Antabuse effect (intolerance to alcohol), notably for chlorpropamide, glibenclamide, glipizide, tolbutamide.
Increase of the hypoglycaemic reaction (inhibition of compensation reactions), which may facilitate the onset of a hypoglycaemic coma (see section 4.4).
Avoid consumption of alcohol and alcohol-containing medications.
Phenylbutazone (systemic route):
Increase in the hypoglycaemic effect of sulphonylurea(s) (displacement of sulphonylurea(s) from protein-binding sites and/or decrease in their elimination). Preferably use another anti-inflammatory agent exhibiting fewer interactions, or else warn the patient and step up self-monitoring; if necessary, adjust the dosage during treatment with the anti-inflammatory agent and after its withdrawal.

Related to all antidiabetic agents

Danazol:
If the combination cannot be avoided, warn the patient and step up self-monitoring of blood glucose. Possibly adjust the dosage of the antidiabetic treatment during treatment with danazol and after its withdrawal.

Related to metformin

Alcohol:
Alcohol intoxication is associated with an

increased risk of lactic acidosis, particularly in cases of fasting, malnutrition or hepatic impairment.

Iodinated contrast agents:
Glibenclamide and Metformin Hydrochloride must be discontinued prior to or at the time of the imaging procedure and not restarted until at least 48 hours after, provided that renal function has been re-evaluated and found to be stable, see sections 4.2 and 4.4.

Combinations requiring precautions

Related to all antidiabetic agents

Chlorpromazine:
At high dosages (100 mg per day of chlorpromazine), elevation in blood glucose (reduction in release of insulin).
Precaution for use: warn the patient and step up self-monitoring of blood glucose. Possibly adjust the dosage of the antidiabetic treatment during treatment with the neuroleptic and after its withdrawal.

Corticosteroids (glucocorticoids) and tetracosactides (systemic and local routes):
Elevation in blood glucose, sometimes accompanied by ketosis (decreased carbohydrate tolerance with corticosteroids).
Precaution for use: warn the patient and step up self-monitoring of blood glucose. Possibly adjust the dosage of the antidiabetic during treatment with corticosteroids and after their withdrawal.

β2-agonists:
Elevation in blood glucose due to the β2-agonists.
Precaution for use: warn the patient, step up blood glucose monitoring and possibly transfer to insulin therapy.

Related to metformin
Some medicinal products can adversely affect renal function which may increase the risk of lactic acidosis, e.g. NSAIDs, including selective cyclo-oxygenase (COX) II inhibitors, ACE inhibitors, angiotensin II receptor antagonists and diuretics, especially loop diuretics. When starting or using such products in combination with metformin, close monitoring of renal function is necessary.

Organic cation transporters (OCT)
Metformin is a substrate of both transporters OCT1 and OCT2. Co-administration of metformin with

- Inhibitors of OCT1 (such as verapamil) may reduce efficacy of metformin.
- Inducers of OCT1 (such as rifampicin) may increase gastrointestinal absorption and efficacy of metformin.

Inhibitors of OCT2 (such as cimetidine, dolutegravir, ranolazine, trimethoprime, vandetanib, isavuconazole) may decrease the renal elimination of metformin and thus lead to an increase in metformin plasma concentration.

- Inhibitors of both OCT1 and OCT2 (such as crizotinib, olaparib) may alter efficacy and renal elimination of metformin

Caution is therefore advised, especially in patients with renal impairment, when these drugs are co-administered with metformin, as metformin plasma concentration may increase. If needed, dose adjustment of metformin may be considered as OCT inhibitors/inducers may alter the efficacy of metformin.

Related to glibenclamide

Beta-blockers
All beta-blockers mask some of the symptoms of hypoglycaemia: palpitations and tachycardia; Most non-cardioselective beta-blockers increase the incidence and severity of hypoglycaemia.
Warn the patient and step up blood glucose self-monitoring, especially at the start of treatment.

Angiotensin converting enzyme inhibitors (e.g. captopril, enalapril):

ACE inhibitors may decrease the blood glucose levels. If necessary, adjust the dosage of Glibenclamide and Metformin Hydrochloride during therapy with an ACE inhibitor and upon its discontinuation.

Fluconazole:
Increase in the half-life of sulphonylurea with possible onset of hypoglycaemic manifestations. Warn the patient and step up blood glucose self-monitoring, and possibly adjust the dosage of the antidiabetic treatment during treatment with fluconazole and after its withdrawal.

Bosentan:
Risk of decreased hypoglycaemic effect of glibenclamide because bosentan reduces the plasma concentration of glibenclamide. An increased risk of liver enzyme elevations was reported in patients receiving glibenclamide concomitantly with bosentan.
Warn the patient, set-up monitoring of glycaemia and liver enzymes and adjust the dosage of the antidiabetic treatment if necessary.

Bile acid sequestrants:
When co-administered simultaneously the plasma concentration of glibenclamide is reduced which may lead to a reduced hypoglycaemic effect. This effect was not observed if glibenclamide is given in a certain period of time before taking the other medicine. It is recommended that Glibenclamide and Metformin Hydrochloride should be administered at least 4 hours prior a bile acid sequestrant.

Other interaction: combination to be taken into account:

Related to glibenclamide

Desmopressin:
Reduction in antidiuretic activity.

4.7 Fertility, pregnancy and lactation

Pregnancy
No preclinical and clinical data on exposed pregnancies are available for Glibenclamide and Metformin Hydrochloride. Risk related to diabetes
When uncontrolled, diabetes (gestational or permanent) gives rise to an increase in congenital abnormalities and perinatal mortality. Diabetes must be controlled as far as possible during the period of conception in order to reduce the risk of congenital abnormalities.

Risk related to metformin (see section 5.3)

Animal studies do not indicate harmful effects with respect to pregnancy, embryonic or fetal development, parturition or postnatal development.

A limited amount of data from the use of metformin in pregnant women does not indicate an increased risk of congenital abnormalities.

Risk related to glibenclamide (see section 5.3)

Studies in animals have shown no evidence of teratogenic activity. In the absence of a teratogenic effect in animals, foetal malformation in humans is not to be expected since to date, substances known to cause malformation in humans have proved to be teratogenic in well-conducted animal studies in two species.

In clinical practice, there are currently no relevant data on which to base an evaluation of potential malformation or fetotoxicity due to glibenclamide when administered during pregnancy.

Management

Adequate blood glucose control allows pregnancy to proceed normally in this category of patients. Glibenclamide and Metformin Hydrochloride must not be used for the treatment of diabetes during pregnancy.

It is imperative that insulin be used to achieve adequate blood glucose control. It is recommended

that the patient be transferred from oral antidiabetic therapy to insulin as soon as she plans to become pregnant or if pregnancy is exposed to this medicinal product. Neonatal blood glucose monitoring is recommended.

Breast-feeding

Metformin is excreted into human breast milk. No adverse effects were observed in breastfed newborns/infants of mothers treated with metformin alone. However, in humans, in the absence of data concerning passage of glibenclamide into breast milk, and in view of the risk of neonatal hypoglycaemia, this medicinal product is contraindicated in the event of breast-feeding.

Fertility

Fertility of male or female rats was unaffected by metformin when administered at doses as high as 600 mg/kg/day, which is approximately three times the maximum recommended human daily dose based on body surface area comparisons.

Fertility of male or female rats was unaffected by glibenclamide when administered orally at dose of 100 and 300 mg/kg/day.

4.7 Effects on ability to drive and use machines

Patients should be alerted to the symptoms of hypoglycaemia and should be advised to exercise caution when driving or using machines.

4.8 Undesirable effects

During treatment initiation, the most common adverse reactions are nausea, vomiting, diarrhoea, abdominal pain and loss of appetite which resolve spontaneously in most cases. To prevent them, it is recommended to take Glibenclamide and Metformin Hydrochloride in 2 or 3 daily doses and to increase slowly the doses.
Transient visual disturbances may occur at the start of treatment due to a decrease in glycaemia levels.
The following adverse reactions may occur under treatment with Glibenclamide and Metformin Hydrochloride. Frequencies are defined as follows: very common: ≥1/10; common ≥1/100, <1/10; uncommon: ≥1/1,000, <1/100; rare ≥1/10,000, <1/1,000; very rare <1/10,000.

Blood and lymphatic system disorders:
These are reversible upon treatment discontinuation.
Rare: Leukopenia, thrombocytopenia.
Very rare: Agranulocytosis, haemolytic anaemia, bone marrow aplasia and pancytopenia.

Metabolism and nutrition disorders:
Hypoglycaemia (see section 4.4).
Uncommon: Crises of hepatic porphyria and porphyria cutanea.
Very rare: Lactic acidosis (see section 4.4).
Decrease of vitamin B_{12} absorption with decrease of serum levels during long- term use of metformin. Consideration of such aetiology is recommended if a patient presents with megaloblastic anaemia.
Disulfiram-like reaction with alcohol intake.

Nervous system disorders:
Common: Taste disturbance.

Eye disorders:
Transient visual disturbances may occur at the start of treatment due to a decrease in glycaemia levels.

Gastrointestinal disorders:
Very common: Gastrointestinal disorders such as nausea, vomiting, diarrhoea, abdominal pain and loss of appetite. These undesirable effects occur more frequently during treatment initiation and resolve spontaneously in most cases. To prevent them, it is recommended that Glibenclamide and Metformin Hydrochloride be taken in 2 or 3 daily doses. A slow increase of the dose may also improve gastrointestinal tolerability.

Skin and subcutaneous tissue disorders:
A cross reactivity to sulphonamide(s) and their derivatives may occur.
Rare: Skin reactions such as pruritus, urticaria, maculopapular rash.
Very rare: Cutaneous or visceral allergic angiitis, erythema multiforme, exfoliative dermatitis, photosensitization, urticaria evolving to shock.

Hepatobiliary disorders:
Very rare: Liver function test abnormalities or hepatitis requiring treatment discontinuation
Investigations:
Uncommon: Average to moderate elevations in serum urea and creatinine concentrations.
Very rare: Hyponatremia.
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.

4.9 Overdose
Overdose may precipitate hypoglycaemia due to the presence of the sulphonylurea (see section 4.4).

High overdose or the existence of concomitant risk factors may lead to lactic acidosis due to the presence of metformin (see section 4.4). Lactic acidosis is a medical emergency and must be treated in hospital. The most effective treatment is to remove lactate and metformin by haemodialysis.

The plasma clearance of glibenclamide may be prolonged in patients suffering from liver disease. Since glibenclamide is extensively bound to proteins, it is not eliminated by dialysis.

5. PHARMACOLOGICAL PROPERTIES

1.4 Pharmacodynamic properties

Pharmacotherapeutic group: Biguanides and sulphonamide(s) in combination.

Metformin is a biguanide with antihyperglycaemic effects, lowering both basal and postprandial plasma glucose. It does not stimulate insulin secretion and therefore does not produce hypoglycaemia.

Metformin may act via 3 mechanisms:

- by reducing hepatic glucose production by inhibiting gluconeogenesis and glycogenolysis in muscle,
- by increasing insulin sensitivity, improving peripheral glucose uptake and utilization
- by delaying intestinal glucose absorption.

Metformin stimulates intracellular glycogen synthesis by acting on glycogen synthase. Metformin increases the transport capacity of all types of membrane glucose transporters (GLUT).

In humans, independently of its action on glycaemia, metformin has favourable effects on lipid metabolism. This has been shown at therapeutic doses in controlled, medium-term or long-term clinical studies: metformin reduces total cholesterol, LDL-cholesterol and triglyceride levels. In clinical trials conducted so far with combination therapy with metformin and glibenclamide, these favourable effects on lipid metabolism have not been shown.

Glibenclamide is a second generation sulphonylurea with a medium half-life: it causes acute lowering of blood glucose by stimulating the release of insulin by the pancreas, this effect being dependent on the presence of functioning beta cells in the islets of Langerhans.

The stimulation of insulin secretion by glibenclamide in response to a meal is of major importance.

The administration of glibenclamide to diabetics induces an increase in the postprandial insulin-stimulating response. The increased postprandial

responses in insulin and C-peptide secretion persist after at least 6 months of treatment.

Metformin and glibenclamide have different mechanisms and sites of action, but their action is complementary. Glibenclamide stimulates the pancreas to secrete insulin, while metformin reduces cell resistance to insulin by acting on peripheral (skeletal muscle) and hepatic sensitivity to insulin.

Results from controlled, double blind clinical trials versus reference products in the treatment of type 2 diabetes inadequately controlled by monotherapy with metformin or glibenclamide combined with diet and exercise, have demonstrated that the combination had an additive effect on glucose regulation.

Paediatric population:

In a 26-week, active controlled, double-blind, clinical study performed in 167 paediatric patients aged 9 to 16 years with type 2 diabetes not adequately controlled with diet and exercise, with or without an oral antidiabetic treatment, a fixed combination of metformin hydrochloride 250 mg and glibenclamide 1.25 mg was not shown more effective to either metformin hydrochloride or glibenclamide in reducing HbA1c from baseline. Therefore, Glibenclamide and Metformin Hydrochloride should not be used in paediatric patients.

5.1 Pharmacokinetic properties Related to the combination

The bioavailability of metformin and glibenclamide in the combination is similar to that noted when one tablet of metformin and one tablet of glibenclamide are taken simultaneously. The bioavailability of metformin in the combination is unaffected by the ingestion of food. The bioavailability of glibenclamide in the combination is unaffected by the ingestion of food, but the absorption speed of glibenclamide is increased by eating.

Related to metformin

Absorption:

After an oral dose of metformin tablet, maximum plasma concentration (C_{max}) is reached in approximately 2.5 hours (t_{max}). Absolute bioavailability of a 500 mg or 850 mg metformin tablet is approximately 50-60% in healthy subjects. After an oral dose, the non-absorbed fraction recovered in faeces was 20-30%.

After oral administration, metformin absorption is saturable and incomplete. It is assumed that the pharmacokinetics of metformin absorption is non-linear. At the usual metformin doses and dosing schedules, steady state plasma concentrations are reached within 24 to 48 hours and are generally less than 1 µg/ml. In controlled clinical trials, maximum metformin plasma levels (C_{max}) did not exceed
5 µg/ml, even at maximum doses.

Distribution:

Plasma protein binding is negligible. Metformin partitions into erythrocytes. The blood peak is lower than the plasma peak and appears at approximately the same time. The red blood cells most likely represent a secondary compartment of distribution. The mean volume of distribution Vd ranged from 63 to 276 l.

Biotransformation:

Metformin is excreted unchanged in the urine. No metabolites have been identified in humans.

Elimination:

Renal clearance of metformin is > 400 ml/min, indicating that metformin is eliminated by glomerular filtration and tubular secretion. Following an oral dose, the apparent terminal elimination half-life is approximately 6.5 hours.

When renal function is impaired, renal clearance is decreased in proportion to that of creatinine and thus the elimination half-life is prolonged, leading to increased levels of metformin in plasma.

Related to glibenclamide

Absorption:

Glibenclamide is very readily absorbed (> 95%) following oral administration. The peak plasma concentration is reached in about 4 hours.

Distribution:

Glibenclamide is extensively bound to plasma albumin (99%), which may account for certain drug interactions.

Biotransformation:

Glibenclamide is completely metabolised in the liver to two metabolites. Hepatocellular failure decreases glibenclamide metabolism and appreciably slows down its excretion.

Elimination:

Glibenclamide is excreted in the form of metabolites via biliary route (60%) and urine (40%), elimination being complete within 45 to 72 hours. Its terminal elimination half-life is 4 to 11 hours.

Biliary excretion of the metabolites increases in cases of renal insufficiency, according to the severity of renal impairment until a creatinine clearance at 30 ml/min. Thus, glibenclamide elimination is unaffected by renal insufficiency as long as the creatinine clearance remains above 30 ml/min.

Paediatric population

There were no differences in pharmacokinetics of glibenclamide and metformin between paediatric patients and weight-and gender-matched healthy adults.

1.5 Preclinical safety data

No preclinical studies have been performed on the combination product. Preclinical evaluation of the constituents metformin and glibenclamide revealed no special hazard for humans based on conventional studies of repeated dose toxicity, genotoxicity and carcinogenic potential.

Animal studies on metformin and glibenclamide do not indicate direct or indirect harmful effects with respect to pregnancy, embryonic/ foetal development, parturition or postnatal development. (see section 4.6).

6. PHARMACEUTICAL PARTICULARS

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Glibenclamide USP	5mg
Metformin Hydrochloride USP	500mg
Excipients	q.s.

1.6 List of excipients

Tablet core

Microcrystalline cellulose Sodium croscarmellose Povidone K30 Magnesium stearate

Film-coating

Opadry (yellow) (lactose monohydrate, hypromellose, titanium dioxide, macrogol, yellow

iron oxide, red iron oxide, Quinoline Yellow Lake.

Incompatibilities

Not applicable

Shelf life

3 years

Special precautions for storage

This medicinal product does not require any special storage conditions.

Nature and contents of container
PVC/PVDC/Al blisters.

Pack sizes: Blisters: 7, 14, 28, 30, 50, 60, 90, 100 and 500 tablets.

Not all pack sizes may be marketed.

Special precautions for disposal

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

7. MANUFACTURED IN INDIA BY:

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