

#### 1. NAME OF THE MEDICINAL PRODUCT

Exforge<sup>®</sup> 5 mg/80 mg Exforge<sup>®</sup> 5 mg/160 mg Exforge<sup>®</sup> 10 mg/160 mg

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

## Exforge<sup>®</sup> 5 mg/80 mg film-coated tablets

Each film-coated tablet contains 5 mg of amlodipine (as amlodipine besylate) and 80 mg of valsartan.

# Exforge® 5 mg/160 mg film-coated tablets

Each film-coated tablet contains 5 mg of amlodipine (as amlodipine besylate) and 160 mg of valsartan.

# Exforge® 10 mg/160 mg film-coated tablets

Each film-coated tablet contains 10 mg of amlodipine (as amlodipine besylate) and 160 mg of valsartan.

For the full list of excipients, see section 6.1.

### 3. PHARMACEUTICAL FORM

Film-coated tablet

## Exforge 5 mg/80 mg film-coated tablets

Dark yellow, round shaped film-coated tablet with bevelled edges, debossed with "NVR" on one side and "NV" on the other side. Approximate size: diameter 8.20 mm.

## Exforge 5 mg/160 mg film-coated tablets

Dark yellow, ovaloid shaped film-coated tablet with bevelled edges, debossed with "NVR" on one side and "ECE" on the other side. Approximate size: 14.2 mm (length) x 5.7 mm (width).

### Exforge 10 mg/160 mg film-coated tablets

Light yellow, ovaloid shaped film-coated tablet with bevelled edges, debossed with "NVR" on one side and "UIC" on the other side. <u>Approximate size:</u> 14.2 mm (length) x 5.7 mm (width).

#### 4. CLINICAL PARTICULARS

## 4.1 Therapeutic indications

Treatment of essential hypertension.

Exforge is indicated for patients whose blood pressure is not adequately controlled on monotherapy.

## 4.2 Posology and method of administration

#### Posology

## General target population

A patient whose blood pressure is not adequately controlled on monotherapy may be switched to combination therapy with Exforge. The recommended dose is one tablet per day (see section 2).

Individual dose titration with the components (i.e. amlodipine and valsartan) is recommended before changing to the fixed dose combination. When clinically appropriate direct change from monotherapy to the fixed-dose combination may be considered.

For convenience, patients receiving valsartan and amlodipine from separate tablets may be switched to Exforge containing the same component doses.

The maximum dose is 10/320 mg.

Exforge can be taken with or without food. It is recommended to take Exforge with some water.

## Special population

#### Geriatric patients (aged 65 years or above)

Since both components of the combination are equally well tolerated when used at similar doses in elderly (aged 65 years or above) or younger patients, no dose adjustment of the starting dose is required (see section 5.1). Starting with the lowest available dose of amlodipine should be considered. The lowest strength of Exforge contains 5 mg of amlodipine.

In elderly patients, caution is required when increasing the dosage.

## Pediatric patients (below 18 years)

Exforge is not recommended for use in patients aged below 18 years due to a lack of data on safety and efficacy.

#### Renal impairment

No dose adjustment is required for patients with mild to moderate renal impairment. Monitoring of potassium levels and creatinine is advised in moderate renal impairment.

#### Hepatic impairment

Due to amlodipine and valsartan, caution should be exercised when administering Exforge to patients with hepatic impairment or biliary obstructive disorders. Amlodipine dosage recommendations have not been established in patients with mild to moderate hepatic impairment.

Starting with the lowest available dose of amlodipine should be considered. The lowest strength of Exforge contains 5 mg of amlodipine (see sections 4.4).

In patients with mild to moderate hepatic impairment without cholestasis, the maximum recommended dose is 80 mg valsartan.

## Method of administration

Oral use.

It is recommended to take Exforge with some water.

#### 4.3 Contraindications

- Hypersensitivity to the active substances, to dihydropyridine derivatives, or to any of the excipients listed in section 6.1.
- Severe hepatic impairment, biliary cirrhosis or cholestasis.
- Concomitant use of Exforge with aliskiren-containing products in patients with diabetes mellitus or renal impairment (GFR <60 ml/min/1.73 m²) (see sections 4.5 and 5.1).
- Second and third trimesters of pregnancy (see sections 4.4 and 4.6).
- Severe hypotension.
- Shock (including cardiogenic shock).
- Obstruction of the outflow tract of the left ventricle (e.g. hypertrophic obstructive cardiomyopathy and high grade aortic stenosis).
- Haemodynamically unstable heart failure after acute myocardial infarction.

## 4.4 Special warnings and precautions for use

The safety and efficacy of amlodipine in hypertensive crisis have not been established.

## **Pregnancy**

Angiotensin II Receptor Antagonists (AIIRAs) should not be initiated during pregnancy. Unless continued AIIRA therapy is considered essential, patients planning pregnancy should be changed to alternative antihypertensive treatments which have an established safety profile for use in pregnancy. When pregnancy is diagnosed, treatment with AIIRAs should be stopped immediately, and, if appropriate, alternative therapy should be started (see sections 4.3 and 4.6).

## Sodium- and/or volume-depleted patients

Excessive hypotension was seen in 0.4% of patients with uncomplicated hypertension treated with Exforge in placebo-controlled studies. In patients with an activated reninangiotensin system (such as volume- and/or salt-depleted patients receiving high doses of diuretics) who are receiving angiotensin receptor blockers, symptomatic hypotension may occur. Correction of this condition prior to administration of Exforge or close medical supervision at the start of treatment is recommended.

If hypotension occurs with Exforge, the patient should be placed in the supine position and, if necessary, given an intravenous infusion of normal saline. Treatment can be continued once blood pressure has been stabilised.

## <u>Hyperkalaemia</u>

Concomitant use with potassium supplements, potassium-sparing diuretics, salt substitutes containing potassium, or other medicinal products that may increase potassium levels (heparin, etc.) should be undertaken with caution and with frequent monitoring of potassium levels.

## Renal artery stenosis

Exforge should be used with caution to treat hypertension in patients with unilateral or bilateral renal artery stenosis or stenosis to a solitary kidney since blood urea and serum creatinine may increase in such patients.

## Kidney transplantation

To date there is no experience of the safe use of Exforge in patients who have had a recent

kidney transplantation.

## Hepatic impairment

Valsartan is mostly eliminated unchanged via the bile. The half life of amlodipine is prolonged and AUC values are higher in patients with impaired liver function; dosage recommendations have not been established. Particular caution should be exercised when administering Exforge to patients with mild to moderate hepatic impairment or biliary obstructive disorders.

In patients with mild to moderate hepatic impairment without cholestasis, the maximum recommended dose is 80 mg valsartan.

## Renal impairment

No dosage adjustment of Exforge is required for patients with mild to moderate renal impairment (GFR >30 ml/min/1.73 m²). Monitoring of potassium levels and creatinine is advised in moderate renal impairment.

## Primary hyperaldosteronism

Patients with primary hyperaldosteronism should not be treated with the angiotensin II antagonist valsartan as their renin-angiotensin system is affected by the primary disease.

## **Angioedema**

Angioedema, including swelling of the larynx and glottis, causing airway obstruction and/or swelling of the face, lips, pharynx and/or tongue, has been reported in patients treated with valsartan. Some of these patients previously experienced angioedema with other medicinal products, including ACE inhibitors. Exforge should be discontinued immediately in patients who develop angioedema and should not be re-administered.

## Heart failure/post-myocardial infarction

As a consequence of the inhibition of the renin-angiotensin-aldosterone system, changes in renal function may be anticipated in susceptible individuals. In patients with severe heart failure whose renal function may depend on the activity of the renin-angiotensin-aldosterone system, treatment with ACE inhibitors and angiotensin receptor antagonists has been associated with oliguria and/or progressive azotaemia and (rarely) with acute renal failure and/or death. Similar outcomes have been reported with valsartan. Evaluation of patients with heart failure or post-myocardial infarction should always include assessment of renal function.

In a long-term, placebo-controlled study (PRAISE-2) of amlodipine in patients with NYHA (New York Heart Association Classification) III and IV heart failure of non-ischaemic aetiology, amlodipine was associated with increased reports of pulmonary oedema despite no significant difference in the incidence of worsening heart failure as compared to placebo.

Calcium channel blockers, including amlodipine, should be used with caution in patients with congestive heart failure, as they may increase the risk of future cardiovascular events and mortality.

# Aortic and mitral valve stenosis

As with all other vasodilators, special caution is indicated in patients suffering from mitral stenosis or significant aortic stenosis that is not high grade.

## Dual blockade of the renin-angiotensin-aldosterone system (RAAS)

There is evidence that the concomitant use of ACE inhibitors, ARBs or aliskiren increases the risk of hypotension, hyperkalaemia and decreased renal function (including acute renal failure). Dual blockade of RAAS through the combined use of ACE inhibitors, ARBs or aliskiren is therefore not recommended (see sections 4.5 and 5.1).

If dual blockade therapy is considered absolutely necessary, this should only occur under specialist supervision and subject to frequent close monitoring of renal function, electrolytes and blood pressure. ACE inhibitors and ARBs should not be used concomitantly in patients with diabetic nephropathy.

Exforge has not been studied in any patient population other than hypertension.

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

## Interactions common to the combination

No drug-drug interaction studies have been performed with Exforge and other medicinal products.

## To be taken into account with concomitant use

## Other antihypertensive agents

Commonly used antihypertensive agents (e.g. alpha blockers, diuretics) and other medicinal products which may cause hypotensive adverse effects (e.g. tricyclic antidepressants, alpha blockers for treatment of benign prostate hyperplasia) may increase the antihypertensive effect of the combination.

### Interactions linked to amlodipine

#### Concomitant use not recommended

### Grapefruit or grapefruit juice

Administration of amlodipine with grapefruit or grapefruit juice is not recommended as bioavailability may be increased in some patients, resulting in increased blood pressure lowering effects.

### Caution required with concomitant use

## CYP3A4 inhibitors

Concomitant use of amlodipine with strong or moderate CYP3A4 inhibitors (protease inhibitors, azole antifungals, macrolides like erythromycin or clarithromycin, verapamil or diltiazem) may give rise to significant increase in amlodipine exposure. The clinical translation of these pharmacokinetic variations may be more pronounced in the elderly. Clinical monitoring and dose adjustment may thus be required.

CYP3A4 inducers (anticonvulsant agents [e.g. carbamazepine, phenobarbital, phenytoin, fosphenytoin, primidone], rifampicin, Hypericum perforatum)

Upon co-administration of known inducers of the CYP3A4, the plasma concentration of amlodipine may vary. Therefore, blood pressure should be monitored and dose regulation considered both during and after concomitant medication particularly with strong CYP3A4 inducers (e.g. rifampicin, hypericum perforatum).

### Simvastatin

Co-administration of multiple doses of 10 mg amlodipine with 80 mg simvastatin resulted in a 77% increase in exposure to simvastatin compared to simvastatin alone. It is recommended to limit the dose of simvastatin to 20 mg daily in patients on amlodipine.

### Dantrolene (infusion)

In animals, lethal ventricular fibrillation and cardiovascular collapse are observed in association with hyperkalaemia after administration of verapamil and intravenous dantrolene. Due to risk of hyperkalaemia, it is recommended that the co-administration of calcium channel blockers such as amlodipine be avoided in patients susceptible to malignant hyperthermia and in the management of malignant hyperthermia.

## To be taken into account with concomitant use

#### Others

In clinical interaction studies, amlodipine did not affect the pharmacokinetics of atorvastatin, digoxin, warfarin or ciclosporin.

### Interactions linked to valsartan

## Concomitant use not recommended

#### Lithium

Reversible increases in serum lithium concentrations and toxicity have been reported during concomitant administration of lithium with angiotensin converting enzyme inhibitors or angiotensin II receptor antagonists, including valsartan. Therefore, careful monitoring of serum lithium levels is recommended during concomitant use. If a diurectic is also used, the risk of lithium toxicity may presumably be increased further with Exforge.

Potassium-sparing diuretics, potassium supplements, salt substitutes containing potassium and other substances that may increase potassium levels

If a medicinal product that affects potassium levels is to be prescribed in combination with valsartan, monitoring of potassium plasma levels is advised.

### Caution required with concomitant use

Non-steroidal anti-inflammatory medicines (NSAIDs), including selective COX-2 inhibitors, acetylsalicylic acid (>3 g/day), and non-selective NSAIDs

When angiotensin II antagonists are administered simultaneously with NSAIDs attenuation of the antihypertensive effect may occur. Furthermore, concomitant use of angiotensin II antagonists and NSAIDs may lead to an increased risk of worsening of renal function and an increase in serum potassium. Therefore, monitoring of renal function at the beginning of the treatment is recommended, as well as adequate hydration of the patient.

Inhibitors of the uptake transporter (rifampicin, ciclosporin) or efflux transporter (ritonavir) The results of an *in vitro* study with human liver tissue indicate that valsartan is a substrate of the hepatic uptake transporter OATP1B1 and of the hepatic efflux transporter MRP2. Coadministration of inhibitors of the uptake transporter (rifampicin, ciclosporin) or efflux transporter (ritonavir) may increase the systemic exposure to valsartan.

Dual blockade of the RAAS with ARBs, ACE inhibitors or aliskiren

Clinical trial data have shown that dual blockade of the RAAS through the combined use of ACE inhibitors, ARBs or aliskiren is associated with a higher frequency of adverse events such as hypotension, hyperkalaemia and decreased renal function (including acute renal failure) compared to the use of a single RAAS-acting agent (see sections 4.3, 4.4 and 5.1).

### Others

In monotherapy with valsartan, no interactions of clinical significance have been found with the following substances: cimetidine, warfarin, furosemide, digoxin, atenolol, indometacin, hydrochlorothiazide, amlodipine, glibenclamide.

## 4.6 Fertility, pregnancy and lactation

## Pregnancy

#### *Amlodipine*

The safety of amlodipine in human pregnancy has not been established. In animal studies, reproductive toxicity was observed at high doses (see section 5.3). Use in pregnancy is only recommended when there is no safer alternative and when the disease itself carries greater risk for the mother and foetus.

## **Valsartan**

The use of Angiotensin II Receptor Antagonists (AIIRAs) is not recommended during the first trimester of pregnancy (see section 4.4). The use of AIIRAs is contraindicated during the second and third trimesters of pregnancy (see sections 4.3 and 4.4).

Epidemiological evidence regarding the risk of teratogenicity following exposure to ACE inhibitors during the first trimester of pregnancy has not been conclusive; however a small increase in risk cannot be excluded. Whilst there is no controlled epidemiological data on the risk with Angiotensin II Receptor Antagonists (AIIRAs), similar risks may exist for this class of drugs. Unless continued AIIRA therapy is considered essential, patients planning pregnancy should be changed to alternative antihypertensive treatments which have an established safety profile for use in pregnancy. When pregnancy is diagnosed, treatment with AIIRAs should be stopped immediately, and, if appropriate, alternative therapy should be started.

Exposure to AIIRA therapy during the second and third trimesters is known to induce human foetotoxicity (decreased renal function, oligohydramnios, skull ossification retardation) and neonatal toxicity (renal failure, hypotension, hyperkalaemia) (see section 5.3).

Should exposure to AIIRAs have occurred from the second trimester of pregnancy, ultrasound check of renal function and skull is recommended.

Infants whose mothers have taken AIIRAs should be closely observed for hypotension (see sections 4.3 and 4.4).

## Breast-feeding

Amlodipine is excreted in human milk. The proportion of the maternal dose received by the infant has been estimated with an interquartile range of 3–7%, with a maximum of 15%. The effect of amlodipine on infants is unknown. No information is available regarding the use of Exforge during breast-feeding, therefore Exforge is not recommended and alternative treatments with better established safety profiles during breast-feeding are preferable, especially while nursing a newborn or preterm infant.

### **Fertility**

There are no clinical studies on fertility with Exforge.

#### Valsartan

Valsartan had no adverse effects on the reproductive performance of male or female rats at oral doses up to 200 mg/kg/day. This dose is 6 times the maximum recommended human dose on a mg/m² basis (calculations assume an oral dose of 320 mg/day and a 60-kg patient).

## Amlodipine

Reversible biochemical changes in the head of spermatozoa have been reported in some patients treated by calcium channel blockers. Clinical data are insufficient regarding the

potential effect of amlodipine on fertility. In one rat study, adverse effects were found on male fertility (see section 5.3).

## 4.7 Effects on ability to drive and use machines

Patients taking Exforge and driving vehicles or using machines should take into account that dizziness or weariness may occasionally occur.

Amlodipine can have mild or moderate influence on the ability to drive and use machines. If patients taking amlodipine suffer from dizziness, headache, fatigue or nausea the ability to react may be impaired.

## 4.8 Undesirable effects

## Summary of the safety profile

The safety of Exforge has been evaluated in five controlled clinical studies with 5,175 patients, 2,613 of whom received valsartan in combination with amlodipine. The following adverse reactions were found to be the most frequently occurring or the most significant or severe: nasopharyngitis, influenza, hypersensitivity, headache, syncope, orthostatic hypotension, oedema, pitting oedema, facial oedema, oedema peripheral, fatigue, flushing, asthenia and hot flush.

## Tabulated list of adverse reactions

Adverse reactions have been ranked under headings of frequency using the following convention: very common ( $\geq$ 1/10); common ( $\geq$ 1/100 to <1/10); uncommon ( $\geq$ 1/1,000 to <1/100); rare ( $\geq$ 1/10,000 to <1/1,000); very rare (<1/10,000); not known (cannot be estimated from the available data).

MedDRA	Adverse reactions	Frequency			
System organ		Exforge	Amlodipin	Valsartan	
class			е		
Infections and	Nasopharyngitis	Common			
infestations	Influenza	Common			
Blood and	Haemoglobin and			Not known	
lymphatic	haematocrit decreased				
system	Leukopenia		Very rare		
disorders	Neutropenia			Not known	
	Thrombocytopenia,		Very rare	Not known	
	sometimes with purpura		,		
Immune system	Hypersensitivity	Rare	Very rare	Not known	
disorders					
Metabolism and	Anorexia	Uncommon			
nutrition	Hypercalcaemia	Uncommon			
disorders	Hyperglycaemia		Very rare		
	Hyperlipidaemia	Uncommon			
	Hyperuricaemia	Uncommon			
	Hypokalaemia	Common			
	Hyponatraemia	Uncommon			
Psychiatric	Depression		Uncommon		
disorders	Anxiety	Rare			
	Insomnia/sleep disorders		Uncommon		
	Mood swings		Uncommon		
	Confusion		Rare		

Nervous	Coordination abnormal	Uncommon		
system	Dizziness	Uncommon	Common	
disorders	Dizziness postural	Uncommon		
	Dysgeusia		Uncommon	
	Extrapyramidal syndrome		Not known	
	Headache	Common	Common	
	Hypertonia		Very rare	
	Paraesthesia	Uncommon	Uncommon	
	Peripheral neuropathy,		Very rare	
	neuropathy		vory raro	
	Somnolence	Uncommon	Common	
	Syncope		Uncommon	
	Tremor		Uncommon	
	Hypoesthesia		Uncommon	
Eye disorders	Visual disturbance	Rare	Uncommon	
Lyc disorders	Visual impairment	Uncommon	Uncommon	
Ear and	Tinnitus	Rare	Uncommon	
labyrinth	Vertigo	Uncommon		Uncommon
disorders	Vertigo	Officontinion		Officontinion
Cardiac	Palpitations	Uncommon	Common	
disorders	Syncope	Rare		
	Tachycardia	Uncommon		
	Arrhythmias (including		Very rare	
	bradycardia, ventricular		vory raro	
	tachycardia, and atrial			
	fibrillation)			
	Myocardial infarction		Very rare	
Vascular	Flushing		Common	
disorders	Hypotension	Rare	Uncommon	
	Orthostatic hypotension	Uncommon		
	Vasculitis		Very rare	Not known
Respiratory,	Cough	Uncommon	Very rare	Uncommon
thoracic and	Dyspnoea		Uncommon	
mediastinal	Pharyngolaryngeal pain	Uncommon		
disorders	Rhinitis		Uncommon	
Gastrointestinal	Abdominal discomfort,	Uncommon	Common	Uncommon
disorders	abdominal pain upper	01100111111011	00111111011	01100111111011
	Change of bowel habit		Uncommon	
	Constipation	Uncommon		
	Diarrhoea	Uncommon	Uncommon	
	Dry mouth	Uncommon	Uncommon	
	Dyspepsia		Uncommon	
	Gastritis		Very rare	
	Gingival hyperplasia		Very rare	
	Nausea	Uncommon	Common	
	Pancreatitis		Very rare	
	Vomiting		Uncommon	
Hepatobiliary	Liver function test		Very rare*	Not known
disorders	abnormal, including blood		vory raio	1400 KIIOWII
	bilirubin increase			
	Hepatitis		Very rare	
	Intrahepatic cholestasis,		Very rare	
	jaundice		v Ci y Tai C	
	Jaarialoo			

Angloedema	Skin and	Alopecia		Uncommon	
Dermatitis bullous	-				
Erythema   Common					
Erythema multiforme	alooud dicordoro				
Exanthema				Very rare	
Hyperhidrosis		•	Pare	,	
Photosensitivity reaction					
Pruritus					
Purpura     Uncommon   Not known		-			
Rash			Raie		NOT KHOWH
Skin discolouration			I Incommon		Not known
Urticaria and other forms of rash   Exfoliative dermatitis     Very rare     Very rare   Stevens-Johnson     Very rare     Very rare relations   Very rate relations			Uncommon		NOT KHOWH
Of rash					
Exfoliative dermatitis					
Stevens-Johnson syndrome				\/am./ ====	
Syndrome					
Toxic Epidermal   Necrolysis   Necrolysis				very rare	
Necrolysis		Quincke oedema		Very rare	
Musculoskeleta   Arthralgia   Back pain   Uncommon		Toxic Epidermal		Not known	
I and connective tissue disorders		Necrolysis			
connective tissue disorders         Joint swelling         Uncommon             Muscle spasm         Rare         Uncommon          Most known           Ankle swelling          Common            Sensation of heaviness         Rare             Renal and urinary         Blood creatinine increased           Not known           Micturition disorder          Uncommon            Nocturia          Uncommon            Pollakiuria         Rare         Uncommon            Pollyuria         Rare          Not known           Reproductive system and breast disorders         Impotence          Uncommon            Reproductive system and disorders         Gynaecomastia          Uncommon            General disorders         Gynaecomastia          Uncommon            General disorders and administration site conditions         Asthenia         Common         Uncommon            Fatigue         Common         Common             Facial oedema         Common	Musculoskeleta	Arthralgia	Uncommon	Uncommon	
tissue disorders         Muscle spasm         Rare         Uncommon            Myalgia          Uncommon         Not known           Ankle swelling          Common            Sensation of heaviness         Rare             Renal and urinary disorders         Blood creatinine increased           Not known increased           Micturition disorder          Uncommon           Not known increased           Micturition disorder          Uncommon           Not known increased           Reproductive system and breast disorders         Impotence          Uncommon          Not known increased           General disorders         Gynaecomastia          Uncommon             Gynaecomastia          Uncommon              Biccomfort, malaise          Uncommon                         <	I and	Back pain	Uncommon	Uncommon	
Myalgia	connective	Joint swelling	Uncommon		
Ankle swelling	tissue disorders	Muscle spasm	Rare	Uncommon	
Ankle swelling		Myalgia		Uncommon	Not known
Sensation of heaviness   Rare       Not known				Common	
urinary disorders         Micturition disorder          Uncommon            Nocturia          Uncommon            Pollakiuria         Rare         Uncommon            Polyuria         Rare             Reproductive system and breast disorders         Impotence          Uncommon            Erectile dysfunction         Rare              General disorders and administration site conditions         Asthenia         Common         Uncommon            Fatigue         Common         Common         Uncommon            Facial oedema         Common         Common         Uncommon           Flushing, hot flush         Common             Non cardiac chest pain          Uncommon            Oedema         Common         Common            Pain          Uncommon            Pain          Uncommon            Pitting oedema         Common             Investigations         Blood potassium increased			Rare		
Micturition disorder	Renal and	Blood creatinine			Not known
Nocturia	urinary	increased			
Pollakiuria	disorders	Micturition disorder		Uncommon	
Polyuria		Nocturia		Uncommon	
Reproductive system and breast disorders  General disorders and administration site conditions  Facial oedema  Non cardiac chest pain  Oedema  Investigations  Reproductive system and impairment  Impotence  Uncommon		Pollakiuria	Rare	Uncommon	
Impairment		Polyuria	Rare		
Reproductive system and breast disorders		Renal failure and			Not known
Erectile dysfunction		impairment			
Gynaecomastia	Reproductive	Impotence		Uncommon	
Asthenia   Common   Uncommon	system and	Erectile dysfunction	Rare		
Asthenia		Gynaecomastia		Uncommon	
disorders and administration site conditions  Fatigue  Common  Common  Facial oedema  Flushing, hot flush  Non cardiac chest pain  Oedema  Common  Com					
Administration site conditions  Fatigue  Common  Common  Facial oedema  Flushing, hot flush  Non cardiac chest pain  Oedema  Common  C			Common	Uncommon	
Facial oedema		Discomfort, malaise		Uncommon	
Flushing, hot flush			Common	Common	Uncommon
Non cardiac chest pain	site conditions	Facial oedema	Common		
Oedema         Common         Common            Oedema peripheral         Common             Pain          Uncommon            Pitting oedema         Common             Investigations         Blood potassium increased          Not known           Weight increase          Uncommon		<u> </u>	Common		
Oedema peripheral					
Pain Uncommon Pitting oedema Common Not known increased Weight increase Uncommon			Common	Common	
Pitting oedema Common Not known increased Weight increase Uncommon		Oedema peripheral	Common		
Investigations Blood potassium Not known increased Weight increase Uncommon		Pain		Uncommon	
increased Weight increase Uncommon		Pitting oedema	Common		
Weight increase Uncommon	Investigations	•			Not known
		increased			
Weight decrease Uncommon		Weight increase		Uncommon	
· · · · · · · · · · · · · · · · · · ·		Weight decrease		Uncommon	

<sup>\*</sup> Mostly consistent with cholestasis

### Additional information on the combination

Peripheral oedema, a recognised side effect of amlodipine, was generally observed at a lower incidence in patients who received the amlodipine/valsartan combination than in those who received amlodipine alone. In double-blind, controlled clinical trials, the incidence of peripheral oedema by dose was as follows:

% of patients who experienced peripheral oedema		Valsartan (mg)				
		0	40	80	160	320
	0	3.0	5.5	2.4	1.6	0.9
Amlodipine (mg)	2.5	8.0	2.3	5.4	2.4	3.9
	5	3.1	4.8	2.3	2.1	2.4
	10	10.3	NA	NA	9.0	9.5

The mean incidence of peripheral oedema evenly weighted across all doses was 5.1% with the amlodipine/valsartan combination.

## Additional information on the individual components

Adverse reactions previously reported with one of the individual components (amlodipine or valsartan) may be potential adverse reactions with Exforge as well, even if not observed in clinical trials or during the post-marketing period.

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$\neg$	UU	w	,,,,

Common Uncommon

Somnolence, dizziness, palpitations, abdominal pain, nausea, ankle swelling. Insomnia, mood changes (including anxiety), depression, tremor, dysgeusia, syncope, hypoesthesia, visual disturbance (including diplopia), tinnitus, hypotension, dyspnoea, rhinitis, vomiting, dyspepsia, alopecia, purpura, skin discolouration, hyperhidrosis, pruritus, exanthema, myalgia, muscle cramps, pain, micturition disorder, increased urinary frequency, impotence,

gynaecomastia, chest pain, malaise, weight increase, weight decrease. Confusion.

Rare Very rare

Leukocytopenia, thrombocytopenia, allergic reactions, hyperglycaemia, hypertonia, peripheral neuropathy, myocardial infarction, arrhythmia (including bradycardia, ventricular tachycardia and atrial fibrillation), vasculitis, pancreatitis, gastritis, gingival hyperplasia, hepatitis, jaundice, hepatic enzymes increased\*, angioedema, erythema multiforme, urticaria, exfoliative dermatitis, Stevens-Johnson syndrome, Quincke oedema,

photosensitivity.

Not known Toxic Epidermal Necrolysis

Exceptional cases of extrapyramidal syndrome have been reported.

## <u>Valsartan</u>

Not known

Decrease in haemoglobin, decrease in haematocrit, neutropenia, thrombocytopenia, increase of serum potassium, elevation of liver function values including increase of serum bilirubin, renal failure and impairment, elevation of serum creatinine, angioedema, myalgia, vasculitis, hypersensitivity including serum sickness.

<sup>\*</sup> mostly consistent with cholestasis

## Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorization of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Any suspected adverse events should be reported to the Ministry of Health according to the National Regulation by using an online form <a href="https://sideeffects.health.gov.il/">https://sideeffects.health.gov.il/</a>

#### 4.9 Overdose

### **Symptoms**

There is no experience of overdose with Exforge. The major symptom of overdose with valsartan is possibly pronounced hypotension with dizziness. Overdose with amlodipine may result in excessive peripheral vasodilation and, possibly, reflex tachycardia. Marked and potentially prolonged systemic hypotension including shock with fatal outcome have been reported with amlodipine.

Non-cardiogenic pulmonary oedema has rarely been reported as a consequence of amlodipine overdose that may manifest with a delayed onset (24-48 hours post-ingestion) and require ventilatory support. Early resuscitative measures (including fluid overload) to maintain perfusion and cardiac output may be precipitating factors.

## **Treatment**

If ingestion is recent, induction of vomiting or gastric lavage may be considered. Administration of activated charcoal to healthy volunteers immediately or up to two hours after ingestion of amlodipine has been shown to significantly decrease amlodipine absorption. Clinically significant hypotension due to Exforge overdose calls for active cardiovascular support, including frequent monitoring of cardiac and respiratory function, elevation of extremities, and attention to circulating fluid volume and urine output. A vasoconstrictor may be helpful in restoring vascular tone and blood pressure, provided that there is no contraindication to its use. Intravenous calcium gluconate may be beneficial in reversing the effects of calcium channel blockade.

Both valsartan and amlodipine are unlikely to be removed by haemodialysis.

#### 5. PHARMACOLOGICAL PROPERTIES

### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Agents acting on the renin-angiotensin system; angiotensin II antagonists, combinations; angiotensin II antagonists and calcium channel blockers, ATC code: C09DB01

Exforge combines two antihypertensive compounds with complementary mechanisms to control blood pressure in patients with essential hypertension: amlodipine belongs to the calcium antagonist class and valsartan to the angiotensin II antagonist class of medicines. The combination of these substances has an additive antihypertensive effect, reducing blood pressure to a greater degree than either component alone.

#### Amlodipine/Valsartan

The combination of amlodipine and valsartan produces dose-related additive reduction in blood pressure across its therapeutic dose range. The antihypertensive effect of a single dose of the combination persisted for 24 hours.

#### Placebo-controlled trials

Over 1,400 hypertensive patients received Exforge once daily in two placebo-controlled trials. Adults with mild to moderate uncomplicated essential hypertension (mean sitting diastolic blood pressure ≥95 and <110 mmHg) were enrolled. Patients with high cardiovascular risks – heart failure, type I and poorly controlled type II diabetes and history of myocardial infarction or stroke within one year – were excluded.

Active-controlled trials in patients who were non-responders to monotherapy

A multicentre, randomised, double-blind, active-controlled, parallel-group trial showed normalisation of blood pressure (trough sitting diastolic blood pressure <90 mmHg at the end of the trial) in patients not adequately controlled on valsartan 160 mg in 75% of patients treated with amlodipine/valsartan 10 mg/160 mg and 62% of patients treated with amlodipine/valsartan 5 mg/160 mg, compared to 53% of patients remaining on valsartan 160 mg. The addition of amlodipine 10 mg and 5 mg produced an additional reduction in systolic/diastolic blood pressure of 6.0/4.8 mmHg and 3.9/2.9 mmHg, respectively, compared to patients who remained on valsartan 160 mg only.

A multicentre, randomised, double-blind, active-controlled, parallel-group trial showed normalisation of blood pressure (trough sitting diastolic blood pressure <90 mmHg at the end of the trial) in patients not adequately controlled on amlodipine 10 mg in 78% of patients treated with amlodipine/valsartan 10 mg/160 mg, compared to 67% of patients remaining on amlodipine 10 mg. The addition of valsartan 160 mg produced an additional reduction in systolic/diastolic blood pressure of 2.9/2.1 mmHg compared to patients who remained on amlodipine 10 mg only.

Exforge was also studied in an active-controlled study of 130 hypertensive patients with mean sitting diastolic blood pressure ≥110 mmHg and <120 mmHg. In this study (baseline blood pressure 171/113 mmHg), an Exforge regimen of 5 mg/160 mg titrated to 10 mg/160 mg reduced sitting blood pressure by 36/29 mmHg as compared to 32/28 mmHg with a regimen of lisinopril/hydrochlorothiazide 10 mg/12.5 mg titrated to 20 mg/12.5 mg.

In two long-term follow-up studies the effect of Exforge was maintained for over one year. Abrupt withdrawal of Exforge has not been associated with a rapid increase in blood pressure.

Age, gender, race or body mass index (≥30 kg/m², <30 kg/m²) did not influence the response to Exforge.

Exforge has not been studied in any patient population other than hypertension. Valsartan has been studied in patients with post myocardial infarction and heart failure. Amlodipine has been studied in patients with chronic stable angina, vasospastic angina and angiographically documented coronary artery disease.

#### Amlodipine

The amlodipine component of Exforge inhibits the transmembrane entry of calcium ions into cardiac and vascular smooth muscle. The mechanism of the antihypertensive action of amlodipine is due to a direct relaxant effect on vascular smooth muscle, causing reductions in peripheral vascular resistance and in blood pressure. Experimental data suggest that amlodipine binds to both dihydropyridine and non-dihydropyridine binding sites. The contractile processes of cardiac muscle and vascular smooth muscle are dependent upon the movement of extracellular calcium ions into these cells through specific ion channels.

Following administration of therapeutic doses to patients with hypertension, amlodipine produces vasodilation, resulting in a reduction of supine and standing blood pressures. These decreases in blood pressure are not accompanied by a significant change in heart rate or plasma catecholamine levels with chronic dosing.

Plasma concentrations correlate with effect in both young and elderly patients.

In hypertensive patients with normal renal function, therapeutic doses of amlodipine resulted in a decrease in renal vascular resistance and an increase in glomerular filtration rate and effective renal plasma flow, without change in filtration fraction or proteinuria.

As with other calcium channel blockers, haemodynamic measurements of cardiac function at rest and during exercise (or pacing) in patients with normal ventricular function treated with amlodipine have generally demonstrated a small increase in cardiac index without significant influence on dP/dt or on left ventricular end diastolic pressure or volume. In haemodynamic studies, amlodipine has not been associated with a negative inotropic effect when administered in the therapeutic dose range to intact animals and humans, even when coadministered with beta blockers to humans.

Amlodipine does not change sinoatrial nodal function or atrioventricular conduction in intact animals or humans. In clinical studies in which amlodipine was administered in combination with beta blockers to patients with either hypertension or angina, no adverse effects on electrocardiographic parameters were observed.

#### Use in patients with hypertension

A randomised double-blind morbidity-mortality study called the Antihypertensive and Lipid-Lowering treatment to prevent Heart Attack Trial (ALLHAT) was performed to compare newer therapies: amlodipine 2.5-10 mg/day (calcium channel blocker) or lisinopril 10-40 mg/day (ACE-inhibitor) as first-line therapies to that of the thiazide-diuretic, chlorthalidone 12.5-25 mg/day in mild to moderate hypertension.

A total of 33,357 hypertensive patients aged 55 or older were randomised and followed for a mean of 4.9 years. The patients had at least one additional coronary heart disease risk factor, including: previous myocardial infarction or stroke (>6 months prior to enrollment) or documentation of other atherosclerotic cardiovascular disease (overall 51.5%), type 2 diabetes (36.1%), high density lipoprotein - cholesterol <35 mg/dl or <0.906 mmol/l (11.6%), left ventricular hypertrophy diagnosed by electrocardiogram or echocardiography (20.9%), current cigarette smoking (21.9%).

The primary endpoint was a composite of fatal coronary heart disease or non-fatal myocardial infarction. There was no significant difference in the primary endpoint between amlodipine-based therapy and chlorthalidone-based therapy: risk ratio (RR) 0.98 95% CI (0.90-1.07) p=0.65. Among secondary endpoints, the incidence of heart failure (component of a composite combined cardiovascular endpoint) was significantly higher in the amlodipine group as compared to the chlorthalidone group (10.2% versus 7.7%, RR 1.38, 95% CI [1.25-1.52] p<0.001). However, there was no significant difference in all-cause mortality between amlodipine-based therapy and chlorthalidone-based therapy RR 0.96 95% CI [0.89-1.02] p=0.20.

#### Valsartan

Valsartan is an orally active, potent and specific angiotensin II receptor antagonist. It acts selectively on the receptor subtype  $AT_1$ , which is responsible for the known actions of angiotensin II. The increased plasma levels of angiotensin II following  $AT_1$  receptor blockade with valsartan may stimulate the unblocked receptor subtype  $AT_2$ , which appears to counterbalance the effect of the  $AT_1$  receptor. Valsartan does not exhibit any partial agonist activity at the  $AT_1$  receptor and has much (about 20,000-fold) greater affinity for the  $AT_1$  receptor than for the  $AT_2$  receptor.

Valsartan does not inhibit ACE, also known as kininase II, which converts angiotensin I to angiotensin II and degrades bradykinin. Since there is no effect on ACE and no potentiation

of bradykinin or substance P, angiotensin II antagonists are unlikely to be associated with coughing. In clinical trials where valsartan was compared with an ACE inhibitor, the incidence of dry cough was significantly (p <0.05) lower in patients treated with valsartan than in those treated with an ACE inhibitor (2.6% versus 7.9%, respectively). In a clinical trial of patients with a history of dry cough during ACE inhibitor therapy, 19.5% of trial subjects receiving valsartan and 19.0% of those receiving a thiazide diuretic experienced coughing, compared to 68.5% of those treated with an ACE inhibitor (p <0.05). Valsartan does not bind to or block other hormone receptors or ion channels known to be important in cardiovascular regulation.

Administration of valsartan to patients with hypertension results in a drop in blood pressure without affecting pulse rate.

In most patients, after administration of a single oral dose, onset of antihypertensive activity occurs within 2 hours, and the peak drop in blood pressure is achieved within 4–6 hours. The antihypertensive effect persists over 24 hours after administration. During repeated administration, the maximum reduction in blood pressure with any dose is generally attained within 2–4 weeks and is sustained during long-term therapy. Abrupt withdrawal of valsartan has not been associated with rebound hypertension or other adverse clinical events.

### Other: dual blockade of the renin-angiotensin-aldosterone system (RAAS)

Two large randomised, controlled trials (ONTARGET [ONgoing Telmisartan Alone and in combination with Ramipril Global Endpoint Trial] and VA NEPHRON-D [The Veterans Affairs Nephropathy in Diabetes]) have examined the use of the combination of an ACE inhibitor with an ARB.

ONTARGET was a study conducted in patients with a history of cardiovascular or cerebrovascular disease, or type 2 diabetes mellitus accompanied by evidence of end-organ damage. VA NEPHRON-D was a study in patients with type 2 diabetes mellitus and diabetic nephropathy.

These studies have shown no significant beneficial effect on renal and/or cardiovascular outcomes and mortality, while an increased risk of hyperkalaemia, acute kidney injury and/or hypotension as compared to monotherapy was observed. Given their similar pharmacodynamic properties, these results are also relevant for other ACE inhibitors and ARBs.

ACE inhibitors and ARBs should therefore not be used concomitantly in patients with diabetic nephropathy (see section 4.4).

ALTITUDE (Aliskiren Trial in Type 2 Diabetes Using Cardiovascular and Renal Disease Endpoints) was a study designed to test the benefit of adding aliskiren to a standard therapy of an ACE inhibitor or an ARB in patients with type 2 diabetes mellitus and chronic kidney disease, cardiovascular disease, or both. The study was terminated early because of an increased risk of adverse outcomes. Cardiovascular death and stroke were both numerically more frequent in the aliskiren group than in the placebo group and adverse events and serious adverse events of interest (hyperkalaemia, hypotension and renal dysfunction) were more frequently reported in the aliskiren group than in the placebo group.

## 5.2 Pharmacokinetic properties

## **Linearity**

Amlodipine and valsartan exhibit linear pharmacokinetics.

#### Amlodipine/Valsartan

Following oral administration of Exforge, peak plasma concentrations of valsartan and amlodipine are reached in 3 and 6–8 hours, respectively. The rate and extent of absorption of Exforge are equivalent to the bioavailability of valsartan and amlodipine when administered as individual tablets.

#### Amlodipine

Absorption: After oral administration of therapeutic doses of amlodipine alone, peak plasma concentrations of amlodipine are reached in 6–12 hours. Absolute bioavailability has been calculated as between 64% and 80%. Amlodipine bioavailability is unaffected by food ingestion.

*Distribution:* Volume of distribution is approximately 21 l/kg. *In vitro* studies with amlodipine have shown that approximately 97.5% of circulating drug is bound to plasma proteins.

*Biotransformation:* Amlodipine is extensively (approximately 90%) metabolised in the liver to inactive metabolites.

*Elimination:* Amlodipine elimination from plasma is biphasic, with a terminal elimination half-life of approximately 30 to 50 hours. Steady-state plasma levels are reached after continuous administration for 7–8 days. Ten per cent of original amlodipine and 60% of amlodipine metabolites are excreted in urine.

#### Valsartan

Absorption: Following oral administration of valsartan alone, peak plasma concentrations of valsartan are reached in 2–4 hours. Mean absolute bioavailability is 23%. Food decreases exposure (as measured by AUC) to valsartan by about 40% and peak plasma concentration ( $C_{\text{max}}$ ) by about 50%, although from about 8 h post dosing plasma valsartan concentrations are similar for the fed and fasted groups. This reduction in AUC is not, however, accompanied by a clinically significant reduction in the therapeutic effect, and valsartan can therefore be given either with or without food.

*Distribution:* The steady-state volume of distribution of valsartan after intravenous administration is about 17 litres, indicating that valsartan does not distribute into tissues extensively. Valsartan is highly bound to serum proteins (94–97%), mainly serum albumin.

*Biotransformation:* Valsartan is not transformed to a high extent as only about 20% of dose is recovered as metabolites. A hydroxy metabolite has been identified in plasma at low concentrations (less than 10% of the valsartan AUC). This metabolite is pharmacologically inactive.

Elimination: Valsartan shows multiexponential decay kinetics ( $t_{1/2}\alpha$  <1 h and  $t_{1/2}\beta$  about 9 h). Valsartan is primarily eliminated in faeces (about 83% of dose) and urine (about 13% of dose), mainly as unchanged drug. Following intravenous administration, plasma clearance of valsartan is about 2 l/h and its renal clearance is 0.62 l/h (about 30% of total clearance). The half-life of valsartan is 6 hours.

## **Special populations**

### Paediatric population (age below 18 years)

No pharmacokinetic data are available in the paediatric population.

### Elderly (age 65 years or over)

Time to peak plasma amlodipine concentrations is similar in young and elderly patients. In elderly patients, amlodipine clearance tends to decline, causing increases in the area under

the curve (AUC) and elimination half-life. Mean systemic AUC of valsartan is higher by 70% in the elderly than in the young, therefore caution is required when increasing the dosage.

### Renal impairment

The pharmacokinetics of amlodipine are not significantly influenced by renal impairment. As expected for a compound where renal clearance accounts for only 30% of total plasma clearance, no correlation was seen between renal function and systemic exposure to valsartan.

#### Hepatic impairment

Very limited clinical data are available regarding amlodipine administration in patients with hepatic impairment. Patients with hepatic impairment have decreased clearance of amlodipine with resulting increase of approximately 40–60% in AUC. On average, in patients with mild to moderate chronic liver disease exposure (measured by AUC values) to valsartan is twice that found in healthy volunteers (matched by age, sex and weight). Caution should be exercised in patients with liver disease (see section 4.2).

## 5.3 Preclinical safety data

## Amlodipine/Valsartan

Adverse reactions observed in animal studies with possible clinical relevance were as follows:

Histopathological signs of inflammation of the glandular stomach was seen in male rats at an exposure of about 1.9 (valsartan) and 2.6 (amlodipine) times the clinical doses of 160 mg valsartan and 10 mg amlodipine. At higher exposures, there were ulceration and erosion of the stomach mucosa in both females and males. Similar changes were also seen in the valsartan alone group (exposure 8.5–11.0 times the clinical dose of 160 mg valsartan).

An increased incidence and severity of renal tubular basophilia/hyalinisation, dilation and casts, as well as interstitial lymphocyte inflammation and arteriolar medial hypertrophy were found at an exposure of 8–13 (valsartan) and 7–8 (amlodipine) times the clinical doses of 160 mg valsartan and 10 mg amlodipine. Similar changes were found in the valsartan alone group (exposure 8.5–11.0 times the clinical dose of 160 mg valsartan).

In an embryo-foetal development study in the rat, increased incidences of dilated ureters, malformed sternebrae, and unossified forepaw phalanges were noticed at exposures of about 12 (valsartan) and 10 (amlodipine) times the clinical doses of 160 mg valsartan and 10 mg amlodipine. Dilated ureters were also found in the valsartan alone group (exposure 12 times the clinical dose of 160 mg valsartan). There were only modest signs of maternal toxicity (moderate reduction of body weight) in this study. The no-observed-effect-level for developmental effects was observed at 3- (valsartan) and 4- (amlodipine) fold the clinical exposure (based on AUC).

For the single compounds there was no evidence of mutagenicity, clastogenicity or carcinogenicity.

## **Amlodipine**

#### Reproductive toxicology

Reproductive studies in rats and mice have shown delayed date of delivery, prolonged duration of labour and decreased pup survival at dosages approximately 50 times greater than the maximum recommended dosage for humans based on mg/kg.

#### Impairment of fertility

There was no effect on the fertility of rats treated with amlodipine (males for 64 days and

females 14 days prior to mating) at doses up to 10 mg/kg/day (8 times\* the maximum recommended human dose of 10 mg on a mg/m² basis). In another rat study in which male rats were treated with amlodipine besilate for 30 days at a dose comparable with the human dose based on mg/kg, decreased plasma follicle-stimulating hormone and testosterone were found as well as decreases in sperm density and in the number of mature spermatids and Sertoli cells.

#### Carcinogenesis, mutagenesis

Rats and mice treated with amlodipine in the diet for two years, at concentrations calculated to provide daily dosage levels of 0.5, 1.25, and 2.5 mg/kg/day showed no evidence of carcinogenicity. The highest dose (for mice, similar to, and for rats twice\* the maximum recommended clinical dose of 10 mg on a mg/m² basis) was close to the maximum tolerated dose for mice but not for rats.

Mutagenicity studies revealed no drug related effects at either the gene or chromosome levels.

\* Based on patient weight of 50 kg

## <u>Valsartan</u>

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenic potential, toxicity to reproduction and development.

In rats, maternally toxic doses (600 mg/kg/day) during the last days of gestation and lactation led to lower survival, lower weight gain and delayed development (pinna detachment and ear-canal opening) in the offspring (see section 4.6). These doses in rats (600 mg/kg/day) are approximately 18 times the maximum recommended human dose on a mg/m² basis (calculations assume an oral dose of 320 mg/day and a 60-kg patient).

In non-clinical safety studies, high doses of valsartan (200 to 600 mg/kg body weight) caused in rats a reduction of red blood cell parameters (erythrocytes, haemoglobin, haematocrit) and evidence of changes in renal haemodynamics (slightly raised blood urea nitrogen, and renal tubular hyperplasia and basophilia in males). These doses in rats (200 and 600 mg/kg/day) are approximately 6 and 18 times the maximum recommended human dose on a mg/m² basis (calculations assume an oral dose of 320 mg/day and a 60-kg patient).

In marmosets at comparable doses, the changes were similar though more severe, particularly in the kidney where the changes developed to a nephropathy including raised blood urea nitrogen and creatinine.

Hypertrophy of the renal juxtaglomerular cells was also seen in both species. All changes were considered to be caused by the pharmacological action of valsartan which produces prolonged hypotension, particularly in marmosets. For therapeutic doses of valsartan in humans, the hypertrophy of the renal juxtaglomerular cells does not seem to have any relevance.

#### 6. PHARMACEUTICAL PARTICULARS

## 6.1 List of excipients

Exforge 5 mg/80 mg, 5 mg/160mg, 10 mg/160mg, film-coated tablets

<u>Tablets core</u>
Cellulose microcrystalline
Crospovidone, type A

#### Magnesium stearate

Silica, colloidal anhydrous / Colloidal silicon dioxide

## Exforge 5 mg/80 mg tablet coating

Hypromellose,

Basic coating premix white: Titanium dioxide (E171)
Basic coating premix yellow: Iron oxide, yellow (E172)

Macrogol 4000

Talc

## Exforge 5 mg/160 mg tablet coating

Hypromellose

Basic coating premix white: Titanium dioxide (E171)
Basic coating premix yellow: Iron oxide, yellow (E172)

Macrogol 4000

Talc

## Exforge 10 mg/160 mg tablet coating

Hypromellose

Basic coating premix white: Titanium dioxide (E171)
Basic coating premix yellow: Iron oxide, yellow (E172)

Basic coating premix red:Iron oxide, red (E172)

Macrogol 4000

Talc

### 6.2 Incompatibilities

Not applicable.

#### 6.3 Shelf life

The expiry date of the product is indicated on the packaging materials.

### 6.4 Special precautions for storage

Do not store above 30°C.

Store in the original package in order to protect from moisture.

#### 6.5 Nature and contents of container

PVC/PA/ALU blisters. Pack sizes: 28, film-coated tablets

## 6.6 Special precautions for disposal and other handling

No special requirements.

## 7. Registration Holder and Importer:

Novartis Israel Ltd., P.O.B. 7126, Tel Aviv

### 8. Registration Number:

Exforge 5mg/80mg: 138-40-31566-01 Exforge 5mg/160mg: 138-41-31567-01 Exforge 10mg/160mg: 138-42-31568-01

Revised in February 2023 according to MOHs guidelines.