#### SUMMARY OF PRODUCT CHARACTERISTICS

#### 1. NAME OF THE MEDICINAL PRODUCT

Candesartan cilexetil/Hydrochloorthiazide Torrent 8 mg/12,5 mg tabletten Candesartan cilexetil/Hydrochloorthiazide Torrent 16 mg/12,5 mg tabletten Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/12,5 mg tabletten Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/25 mg tabletten

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Candesartan cilexetil/Hydrochloorthiazide Torrent 8 mg/12,5 mg: One tablet contains 8 mg candesartan cilexetil and 12.5 mg hydrochlorothiazide. Each tablet contains 69.72 mg lactose monohydrate.

Candesartan cilexetil/Hydrochloorthiazide Torrent 16 mg/12,5 mg:
One tablet contains 16 mg candesartan cilexetil and 12.5 mg hydrochlorothiazide.
Each tablet contains 61.2 mg lactose monohydrate.

Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/12,5 mg:
One tablet contains 32 mg candesartan cilexetil and 12.5 mg hydrochlorothiazide.
Each tablet contains 112.1 mg lactose monohydrate.

Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/25 mg:
One tablet contains 32 mg candesartan cilexetil and 25 mg hydrochlorothiazide.
Each tablet contains 98.82 mg lactose monohydrate.

This medicine contains less than 1 mmol sodium (23 mg) per tablet.

For the full list of excipients, see section 6.1.

# 3. PHARMACEUTICAL FORM

Tablet.

Candesartan cilexetil/Hydrochloorthiazide Torrent 8 mg/12,5 mg:

White to off white, oval, biconvex, 9.5 x 4.5 mm, bevel edged uncoated tablets with breakline on both sides.

Candesartan cilexetil/Hydrochloorthiazide Torrent 16 mg/12,5 mg:

Peach colored to light orange colored, oval, biconvex, 9.5 x 4.5 mm, bevel edged uncoated tablets with breakline on both sides.

Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/12,5 mg:

Light yellow colored to yellow colored, oval, biconvex, 11.0 mm x 6.5 mm, bevel edged uncoated tablets with breakline on both sides.

Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/25 mg:

Peach colored to light orange colored, oval, biconvex, 11.0 mm x 6.5 mm, bevel edged, uncoated tablets, with breakline on both sides.

The tablets can be divided into equal doses.

## 4. CLINICAL PARTICULARS

## 4.1 Therapeutic indications

NL/s/001/16/7

Candesartan cilexetil/Hydrochloorthiazide Torrent is indicated for the:

• Treatment of primary hypertension in adult patients whose blood pressure is not optimally controlled with candesartan cilexetil or hydrochlorothiazide monotherapy.

# 4.2 Posology and method of administration

#### Posology in hypertension

The recommended dose of Candesartan cilexetil/Hydrochloorthiazide Torrent is one tablet once daily.

Dose titration with the individual components (candesartan cilexetil and hydrochlorothiazide) is recommended. When clinically appropriate a direct change from monotherapy to Candesartan cilexetil/Hydrochloorthiazide Torrent may be considered. Dose titration of candesartan cilexetil is recommended when switching from hydrochlorothiazide monotherapy. Candesartan cilexetil/Hydrochloorthiazide Torrent may be administered in patients whose blood pressure is not optimally controlled with candesartan cilexetil or hydrochlorothiazide monotherapy or Candesartan cilexetil/Hydrochloorthiazide Torrent at lower doses.

Most of the antihypertensive effect is usually attained within 4 weeks of initiation of treatment.

## Special populations

## Elderly population

No dose adjustment is necessary in elderly patients.

## Patients with intravascular volume depletion

Dose titration of candesartan cilexetil is recommended in patients at risk for hypotension, such as patients with possible volume depletion (an initial dose of candesartan cilexetil of 4 mg may be considered in these patients).

# Patients with renal impairment

In patients with mild to moderate renal impairment (creatinine clearance 30-80 ml/min/1.73 m<sup>2</sup> BSA) a dose titration is recommended.

Candesartan cilexetil/Hydrochloorthiazide Torrent is contraindicated in patients with severe renal impairment (creatinine clearance <30 ml/min/1.73 m<sup>2</sup> BSA) (see section 4.3).

# Patients with hepatic impairment

Dose titration of candesartan cilexetil is recommended in patients with mild to moderate chronic liver disease.

Candesartan cilexetil/Hydrochloorthiazide Torrent is contraindicated in patients with severe hepatic impairment and/or cholestasis (see section 4.3).

## Paediatric population

The safety and efficacy of Candesartan cilexetil/Hydrochloorthiazide Torrent in children aged between birth and 18 years have not been established. No data are available.

#### Method of administration

Oral use.

Candesartan cilexetil/Hydrochloorthiazide Torrent can be taken with or without food.

The bioavailability of candesartan is not affected by food.

There is no clinically significant interaction between hydrochlorothiazide and food.

 $\label{localization} Candesartan\ cilexetil/Hydrochloorthiazide\ Torrent\ 8\ mg/12,5\ mg,\ 16\ mg/12,5\ mg,\ 32\ mg/12,5\ mg.\ 32\ mg/25\ mg\ tabletten\ -\ Page\ 3\ NL/H/2070/001-002,005-006/DC$ 

NL (common) SmPC NL/s/001/16/7

#### 4.3 Contraindications

- Hypersensitivity to the active substances or to any of the excipients listed in section 6.1 or to sulfonamide derived active substances. Hydrochlorothiazide is a sulfonamide derived active substance
- Second and third trimester of pregnancy (see sections 4.4 and 4.6).
- Severe renal impairment (creatinine clearance <30 ml/min/1.73 m<sup>2</sup> BSA).
- Severe hepatic impairment and/or cholestasis.
- Refractory hypokalaemia and hypercalcaemia.
- Gout.
- The concomitant use of Candesartan cilexetil/Hydrochloorthiazide Torrent with aliskirencontaining products is contraindicated in patients with diabetes mellitus or renal impairment (GFR < 60 ml/min/1.73 m²) (see sections 4.5 and 5.1).

#### 4.4 Special warnings and precautions for use

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

There is evidence that the concomitant use of ACE-inhibitors, angiotensin II receptor blockers 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, angiotensin II receptor blockers 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 angiotensin II receptor blockers should not be used concomitantly in patients with diabetic nephropathy.

### Renal impairment

As with other agents inhibiting the renin-angiotensin-aldosterone system, changes in renal function may be anticipated in susceptible patients treated with Candesartan cilexetil/Hydrochloorthiazide Torrent (see section 4.3).

## Kidney transplantation

There is limited clinical evidence regarding Candesartan cilexetil/Hydrochloorthiazide Torrent use in patients who have undergone renal transplant.

# Renal artery stenosis

Medicinal products that affect the renin-angiotensin-aldosterone system, including angiotensin II receptor antagonists (AIIRAs), may increase blood urea and serum creatinine in patients with bilateral renal artery stenosis or stenosis of the artery to a solitary kidney.

### Intravascular volume depletion

In patients with intravascular volume and/or sodium depletion symptomatic hypotension may occur, as described for other agents acting on the renin-angiotensin-aldosterone system. Therefore, the use of Candesartan cilexetil/Hydrochloorthiazide Torrent is not recommended until this condition has been corrected.

#### Anaesthesia and surgery

Hypotension may occur during anaesthesia and surgery in patients treated with AIIRAs due to blockade of the renin-angiotensin system. Very rarely, hypotension may be severe such that it may warrant the use of intravenous fluids and/or vasopressors.

#### Hepatic impairment

Thiazides should be used with caution in patients with impaired hepatic function or progressive liver disease, since minor alterations of fluid and electrolyte balance may precipitate hepatic coma.

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There is no clinical experience with Candesartan cilexetil/Hydrochloorthiazide Torrent in patients with hepatic impairment.

Aortic and mitral valve stenosis (obstructive hypertrophic cardiomyopathy)

As with other vasodilators, special caution is indicated in patients suffering from haemodynamically relevant aortic or mitral valve stenosis, or obstructive hypertrophic cardiomyopathy.

## Primary hyperaldosteronism

Patients with primary hyperaldosteronism generally will not respond to antihypertensive agents acting through inhibition of the renin-angiotensin-aldosterone system. Therefore the use of Candesartan cilexetil/Hydrochloorthiazide Torrent is not recommended in this population.

# Electrolyte imbalance

Periodic determination of serum electrolytes should be performed at appropriate intervals.

Thiazides, including hydrochlorothiazide, can cause fluid or electrolyte imbalance (hypercalcaemia, hypokalaemia, hypomagnesaemia and hypochloraemic alkalosis).

Thiazide diuretics may decrease the urinary calcium excretion and may cause intermittent and slightly increased serum calcium concentrations.

Marked hypercalcaemia may be a sign of hidden hyperparathyroidism. Thiazides should be discontinued before carrying out tests for parathyroid function.

Hydrochlorothiazide dose-dependently increases urinary potassium excretion which may result in hypokalaemia. This effect of hydrochlorothiazide seems to be less evident when combined with candesartan cilexetil. The risk for hypokalaemia may be increased in patients with cirrhosis of the liver, in patients experiencing brisk diuresis, in patients with an inadequate oral intake of electrolytes and in patients receiving concomitant therapy with corticosteroids or adrenocorticotropic hormone (ACTH).

Treatment with candesartan cilexetil may cause hyperkalaemia, especially in the presence of heart failure and/or renal impairment. Concomitant use of candesartan cilexetil/Hydrochlorothiazide Torrent and ACE inhibitors, aliskiren, potassium-sparing diuretics, potassium supplements or salt substitutes or other medicinal products that may increase serum potassium levels (e.g. heparin sodium, co-trimoxazole also known as trimethoprim/sulfamethoxazole) may lead to increases in serum potassium. Monitoring of potassium should be undertaken as appropriate.

Thiazides have been shown to increase the urinary excretion of magnesium, which may result in hypomagnesaemia.

## Metabolic and endocrine effects

Treatment with a thiazide diuretic may impair glucose tolerance. Dose adjustment of antidiabetic medicinal products, including insulin, may be required. Latent diabetes mellitus may become manifest during thiazide therapy. Increases in cholesterol and triglyceride levels have been associated with thiazide diuretic therapy. At the doses contained in candesartan cilexetil/Hydrochlorothiazide Torrent, only minimal effects were observed. Thiazide diuretics increase serum uric acid concentration and may precipitate gout in susceptible patients.

## *Photosensitivity*

Cases of photosensitivity reactions have been reported during use of thiazide diuretics (see section 4.8). If a photosensitivity reaction occurs, it is recommended to stop treatment. If re-administration of treatment is essential, it is recommended to protect areas exposed to the sun or to artificial UVA radiation.

## Non-melanoma skin cancer

An increased risk of non-melanoma skin cancer (NMSC) [basal cell carcinoma (BCC) and squamous cell carcinoma (SCC)] with increasing cumulative dose of hydrochlorothiazide (HCTZ)

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exposure has been observed in two epidemiological studies based on the Danish National Cancer Registry. Photosensitizing actions of HCTZ could act as a possible mechanism for NMSC.

Patients taking HCTZ should be informed of the risk of NMSC and advised to regularly check their skin for any new lesions and promptly report any suspicious skin lesions. Possible preventive measures such as limited exposure to sunlight and UV rays and, in case of exposure, adequate protection should be advised to the patients in order to minimize the risk of skin cancer. Suspicious skin lesions should be promptly examined potentially including histological examinations of biopsies. The use of HCTZ may also need to be reconsidered in patients who have experienced previous NMSC (see section 4.8).

### Choroidal effusion, acute myopia and secondary angle-closure glaucoma

Sulfonamide or sulfonamide derivative drugs can cause an idiosyncratic reaction resulting in choroidal effusion with visual field defect, transient myopia and acute angle-closure glaucoma. Symptoms include acute onset of decreased visual acuity or ocular pain and typically occur within hours to weeks of drug initiation. Untreated acute angle-closure glaucoma can lead to permanent vision loss. The primary treatment is to discontinue drug intake as rapidly as possible. Prompt medical or surgical treatments may need to be considered if the intraocular pressure remains uncontrolled. Risk factors for developing acute angle-closure glaucoma may include a history of sulfonamide or penicillin allergy.

### Acute Respiratory Toxicity

Very rare severe cases of acute respiratory toxicity, including acute respiratory distress syndrome (ARDS) have been reported after taking hydrochlorothiazide. Pulmonary oedema typically develops within minutes to hours after hydrochlorothiazide intake. At the onset, symptoms include dyspnoea, fever, pulmonary deterioration and hypotension. If diagnosis of ARDS is suspected, Candesartan cilexetil/Hydrochlorothiazide Torrent should be withdrawn and appropriate treatment given. Hydrochlorothiazide should not be administered to patients who previously experienced ARDS following hydrochlorothiazide intake.

#### General

In patients whose vascular tone and renal function depend predominantly on the activity of the renin-angiotensin-aldosterone system (e.g. patients with severe congestive heart failure or underlying renal disease, including renal artery stenosis), treatment with medicinal products that affect this system including AIIRAs, has been associated with acute hypotension, azotaemia, oliguria or, rarely, acute renal failure. As with any antihypertensive agent, excessive blood pressure decrease in patients with ischaemic heart disease or atherosclerotic cerebrovascular disease could result in a myocardial infarction or stroke.

Hypersensitivity reactions to hydrochlorothiazide may occur in patients with or without a history of allergy or bronchial asthma, but are more likely in patients with such a history.

Exacerbation or activation of systemic lupus erythematosus has been reported with the use of thiazide diuretics.

The antihypertensive effect of Candesartan cilexetil/Hydrochloorthiazide Torrent may be enhanced by other antihypertensives.

This medicinal product contains lactose, as an excipient, and patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption should not take this medicine.

#### **Pregnancy**

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).

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

Compounds which have been investigated in clinical pharmacokinetic studies include warfarin, digoxin, oral contraceptives (i.e. ethinylestradiol/levonorgestrel), glibenclamide and nifedipine. No pharmacokinetic interactions of clinical significance were identified in these studies.

The potassium depleting effect of hydrochlorothiazide could be expected to be potentiated by other medicinal products associated with potassium loss and hypokalaemia (e.g. other kaliuretic diuretics, laxatives, amphotericin, carbenoxolone, penicillin G sodium, salicylic acid derivates, steroids, ACTH).

Concomitant use of Candesartan cilexetil/Hydrochloorthiazide Torrent and potassium-sparing diuretics, potassium supplements or salt substitutes or other medicinal products that may increase levels heparin sodium, co-trimoxazole potassium (e.g. trimethoprim/sulfamethoxazole) may lead to increases in serum potassium. Monitoring of potassium should be undertaken as appropriate (see section 4.4).

Diuretic-induced hypokalaemia and hypomagnesaemia predisposes to the potential cardiotoxic effects of digitalis glycosides and antiarrhythmics. Periodic monitoring of serum potassium is recommended when Candesartan cilexetil/Hydrochloorthiazide Torrent is administered with such medicinal products, and with the following medicinal products that could induce torsades de pointes:

- Class Ia antiarrhythmics (e.g. quinidine, hydroquinidine, disopyramide)
- Class III antiarrhythmics (e.g. amiodarone, sotalol, dofetilide, ibutilide)
- Some antipsychotics (e.g. thioridazine, chlorpromazine, levomepromazine, trifluoperazine, cyamemazine, sulpiride, sultopride, amisulpride, tiapride, pimozide, haloperidol, droperiodol)
- Others (e.g. bepridil, cisapride, diphemanil, erythromycin iv, halofantrin, ketanserin, mizolastin, pentamidine, sparfloxacine, terfenadine, vincamine iv)

Reversible increases in serum lithium concentrations and toxicity have been reported during concomitant administration of lithium with Angiotensin Converting Enzyme (ACE) inhibitors or hydrochlorothiazide. A similar effect has also been reported with AIIRAs. Use of candesartan and hydrochlorothiazide with lithium is not recommended. If the combination proves necessary, careful monitoring of serum lithium levels is recommended.

When AIIRAs are administered simultaneously with non-steroidal anti-inflammatory drugs (NSAIDs) (i.e. selective COX-2 inhibitors, acetylsalicylic acid (> 3 g/day) and non-selective NSAIDs), attenuation of the antihypertensive effect may occur.

As with ACE inhibitors, concomitant use of AIIRAs and NSAIDs may lead to an increased risk of worsening of renal function, including possible acute renal failure, and an increase in serum potassium, especially in patients with poor pre-existing renal function. The combination should be administered with caution, especially in the elderly. Patients should be adequately hydrated and consideration should be given to monitoring renal function after initiation of concomitant therapy, and periodically thereafter.

The diuretic, natriuretic and antihypertensive effect of hydrochlorothiazide is blunted by NSAIDs.

The absorption of hydrochlorothiazide is reduced by colestipol or cholestyramine.

The effect of nondepolarising skeletal muscle relaxants (e.g. tubocurarine) may be potentiated by hydrochlorothiazide.

Thiazide diuretics may increase serum calcium levels due to decreased excretion. If calcium supplements or Vitamin D must be prescribed, serum calcium levels should be monitored and the dose adjusted accordingly.

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The hyperglycaemic effect of beta-blockers and diazoxide may be enhanced by thiazides.

Anticholinergic agents (e.g. atropine, biperiden) may increase the bioavailability of thiazide-type diuretics by decreasing gastrointestinal motility and stomach emptying rate.

Thiazide may increase the risk of adverse effects caused by amantadine.

Thiazides may reduce the renal excretion of cytotoxic medicinal products (e.g. cyclophosphamide, methotrexate) and potentiate their myelosuppressive effects.

Postural hypotension may become aggravated by simultaneous intake of alcohol, barbiturates or anaesthetics.

Treatment with a thiazide diuretic may impair glucose tolerance. Dose adjustment of antidiabetic medicinal products, including insulin, may be required. Metformin should be used with caution because of the risk of lactic acidosis induced by possible functional renal failure linked to hydrochlorothiazide.

Hydrochlorothiazide may cause the arterial response to pressor amines (e.g. adrenaline) to decrease but not enough to exclude a pressor effect.

Hydrochlorothiazide may increase the risk of acute renal insufficiency especially with high doses of iodinated contrast media.

Concomitant treatment with cyclosporine may increase the risk of hyperuricaemia and gout-type complications.

Concomitant treatment with baclofen, amifostin, tricyclic antidepressants or neuroleptics may lead to enhancement of the antihypertensive effect and may induce hypotension.

Clinical trial data has shown that dual blockade of the renin-angiotensin-aldosterone-system (RAAS) through the combined use of ACE-inhibitors, angiotensin II receptor blockers 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).

## 4.6 Fertility, pregnancy and lactation

### **Pregnancy**

Angiotensin II Receptor Antagonists (AIIRAs):

The use of AIIRAs is not recommended during the first trimester of pregnancy (see section 4.4). The use of AIIRAs is contra-indicated during the second and third trimesters of pregnancy (see section 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 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.

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Exposure to AIIRA therapy during the second and third trimester is known to induce human fetotoxicity (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).

#### *Hydrochlorothiazide:*

There is limited experience with hydrochlorothiazide during pregnancy, especially during the first trimester. Animal studies are insufficient.

Hydrochlorothiazide crosses the placenta. Based on the pharmacological mechanism of action of hydrochlorothiazide its use during the second and third trimester may compromise foeto-placental perfusion and may cause foetal and neonatal effects like icterus, disturbance of electrolyte balance and thrombocytopenia.

Hydrochlorothiazide should not be used for gestational oedema, gestational hypertension or preeclampsia due to the risk of decreased plasma volume and placental hypoperfusion, without a beneficial effect on the course of the disease.

Hydrochlorothiazide should not be used for essential hypertension in pregnant women except in rare situations where no other treatment could be used.

## Breastfeeding

Angiotensin II Receptor Antagonists (AIIRAs):

Because no information is available regarding the use of candesartan cilexetil/hydrochlorothiazide Torrent during breastfeeding, Candesartan cilexetil/Hydrochlorothiazide Torrent is not recommended and alternative treatments with better established safety profiles during breast-feeding are preferable, especially while nursing a newborn or preterm infant.

#### *Hydrochlorothiazide:*

Hydrochlorothiazide is excreted in human milk in small amounts. Thiazides in high doses causing intense diuresis can inhibit the milk production. The use of Candesartan cilexetil/Hydrochloorthiazide Torrent during breast-feeding is not recommended.

## 4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed. When driving vehicles or operating machines, it should be taken into account that occasionally dizziness or weariness may occur during treatment with Candesartan cilexetil/Hydrochloorthiazide Torrent.

#### 4.8 Undesirable effects

In controlled clinical studies with candesartan cilexetil/hydrochlorothiazide adverse reactions were mild and transient.

Withdrawals from treatment due to adverse events were similar with candesartan cilexetil/hydrochlorothiazide (2.3-3.3%) and placebo (2.7-4.3%).

In clinical trials with candesartan cilexetil/hydrochlorothiazide, adverse reactions were limited to those that were reported previously with candesartan cilexetil and/or hydrochlorothiazide.

The table below presents adverse reactions with candesartan cilexetil from clinical trials and post marketing experience. In a pooled analysis of clinical trial data of hypertensive patients, adverse reactions with candesartan cilexetil were defined based on an incidence of adverse events with candesartan cilexetil at least 1% higher than the incidence seen with placebo.

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The frequencies used in the tables throughout section 4.8 are: very common (≥ 1/10), common  $(\ge 1/100, <1/10)$ , uncommon  $(\ge 1/1,000, <1/100)$ , rare  $(\ge 1/10,000, <1/1,000)$ , very rare (<1/10,000)and not known (cannot be estimated from the available data).

System Organ Class	Frequency	Undesirable Effect
Infections and infestations	Common	Respiratory infection
Blood and lymphatic	Very rare	Leukopenia, neutropenia and agranulocytosis
system disorders		
Metabolism and nutrition	Very rare	Hyperkalaemia, hyponatraemia
disorders		
Nervous system disorders	Common	Dizziness/vertigo, headache
Respiratory, thoracic and	Very rare	Cough
mediastinal disorders		
Gastrointestinal disorders	Very rare	Nausea
	Not known	Diarrhoea
Hepatobiliary disorders	Very rare	Increased liver enzymes, abnormal hepatic
		function or hepatitis
Skin and subcutaneous	Very rare	Angioedema, rash, urticaria, pruritus
tissue disorders		
Musculoskeletal and	Very rare	Back pain, arthralgia, myalgia
connective tissue disorders		
Renal and urinary disorders	Very rare	Renal impairment, including renal failure in
		susceptible patients (see section 4.4)

The table below presents adverse reactions with hydrochlorothiazide monotherapy usually with doses of 25 mg or higher.

System Organ Class	Frequency	Undesirable Effect
Neoplasms benign,	Not known	Non-melanoma skin cancer (Basal cell carcinoma
malignant and		and Squamous cell carcinoma)
unspecified (incl		
cysts and polyps)		
Blood and lymphatic	Rare	Leukopenia, neutropenia/agranulocytosis,
system disorders		thrombocytopenia, aplastic anaemia, bone marrow
		depression, haemolytic anaemia
Immune system	Rare	Anaphylactic reactions
disorders		
Metabolism and	Common	Hyperglycaemia, hyperuricaemia, electrolyte
nutrition disorders		imbalance (including hyponatraemia and
		hypokalaemia)
Psychiatric disorders	Rare	Sleep disturbances, depression, restlessness
Nervous system	Common	Light-headedness, vertigo
disorders	Rare	Paraesthesia
Eye disorders	Rare	Transient blurred vision
	Not known	Acute myopia, acute angle-closure glaucoma,
		choroidal effusion
Cardiac disorders	Rare	Cardiac arrhythmias
Vascular disorders	Uncommon	Postural hypotension
	Rare	Necrotising angiitis (vasculitis, cutaneous
		vasculitis)
Respiratory, thoracic and	Rare	Respiratory distress (including pneumonitis and
mediastinal disorders		pulmonary oedema)
	Very rare	Acute respiratory distress syndrome (ARDS) (see
		section 4.4)

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Gastrointestinal disorders	Uncommon	Anorexia, loss of appetite, gastric irritation,
		diarrhoea, constipation
	Rare	Pancreatitis
Hepatobiliary disorders	Rare	Jaundice (intrahepatic cholestatic jaundice)
Skin and subcutaneous	Uncommon	Rash, urticaria, photosensitivity reactions
tissue disorders	Rare	Toxic epidermal necrolysis
	Not known	Systemic lupus erythematosus
		Cutaneous lupus erythematosus
Musculoskeletal and	Rare	Muscle spasm
connective tissue disorders		
Renal and urinary disorders	Common	Glycosuria
	Rare	Renal dysfunction and interstitial nephritis
General disorders and	Common	Weakness
administration site	Rare	Fever
conditions		
Investigations	Common	Increases in cholesterol and triglycerides
	Rare	Increases in BUN and serum creatinine

# Description of selected adverse reactions

Non-melanoma skin cancer: Based on available data from epidemiological studies, cumulative dose-dependent association between HCTZ and NMSC has been observed (see sections 4.4 and 5.1).

### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix  $V^*$ .

#### 4.9 Overdose

## **Symptoms**

Based on pharmacological considerations, the main manifestation of an overdose of candesartan cilexetil is likely to be symptomatic hypotension and dizziness. In individual case reports of overdose (of up to 672 mg candesartan cilexetil) patient recovery was uneventful.

The main manifestation of an overdose of hydrochlorothiazide is acute loss of fluid and electrolytes. Symptoms such as dizziness, hypotension, thirst, tachycardia, ventricular arrhythmias, sedation/impairment of consciousness and muscle cramps can also be observed.

### Management

No specific information is available on the treatment of overdosage with Candesartan cilexetil/Hydrochloorthiazide Torrent. The following measures are, however, suggested in case of overdosage.

When indicated, induction of vomiting or gastric lavage should be considered. If symptomatic hypotension should occur, symptomatic treatment should be instituted and vital signs monitored. The patient should be placed supine with the legs elevated. If this is not sufficient, plasma volume should be increased by infusion of isotonic saline solution. Serum electrolyte and acid balance should be checked and corrected, if needed. Sympathomimetic medicinal products may be administered if the above-mentioned measures are not sufficient.

Candesartan cannot be removed by haemodialysis. It is not known to what extent hydrochlorothiazide is removed by haemodialysis.

#### 5. PHARMACOLOGICAL PROPERTIES

# **5.1 Pharmacodynamic properties**

Pharmaco-therapeutic group: Angiotensin II antagonists + diuretics, ATC code C09DA06

## Mechanism of action

Angiotensin II is the primary vasoactive hormone of the renin-angiotensin-aldosterone system and plays a role in the pathophysiology of hypertension and other cardiovascular disorders. It also has a role in the pathogenesis of organ hypertrophy and end organ damage. The major physiological effects of angiotensin II, such as vasoconstriction, aldosterone stimulation, regulation of salt and water homeostasis and stimulation of cell growth, are mediated via the type 1 (AT<sub>1</sub>) receptor.

#### Pharmacodynamic effects

Candesartan cilexetil is a prodrug which is rapidly converted to the active drug, candesartan, by ester hydrolysis during absorption from the gastrointestinal tract. Candesartan is an AIIRA, selective for AT1 receptors, with tight binding to and slow dissociation from the receptor. It has no agonist activity.

Candesartan does not influence ACE or other enzyme systems usually associated with the use of ACE inhibitors. Since there is no effect on the degradation of kinins, or on the metabolism of other substances, such as substance P, AIIRAs are unlikely to be associated with cough. In controlled clinical trials comparing candesartan cilexetil with ACE inhibitors, the incidence of cough was lower in patients receiving candesartan cilexetil. Candesartan does not bind to or block other hormone receptors or ion channels known to be important in cardiovascular regulation. The antagonism of the AT1 receptors results in dose related increases in plasma renin levels, angiotensin I and angiotensin II levels, and a decrease in plasma aldosterone concentration.

## Clinical efficacy and safety

The effects of candesartan cilexetil 8-16 mg (mean dose 12 mg) once daily on cardiovascular morbidity and mortality were evaluated in a randomised clinical trial with 4937 elderly patients (aged 70-89 years, 21% aged 80 or above) with mild to moderate hypertension followed for a mean of 3.7 years (Study on Cognition and Prognosis in the Elderly). Patients received candesartan or placebo with other antihypertensive treatment added as needed. The blood pressure was reduced from 166/90 to 145/80 mmHg in the candesartan group, and from 167/90 to 149/82 mmHg in the control group. There was no statistically significant difference in the primary endpoint, major cardiovascular events (cardiovascular mortality, non-fatal stroke and non-fatal myocardial infarction). There were 26.7 events per 1000 patient-years in the candesartan group versus 30.0 events per 1000 patient-years in the control group (relative risk 0.89, 95% CI 0.75 to 1.06, p=0.19).

Hydrochlorothiazide inhibits the active reabsorption of sodium, mainly in the distal kidney tubules, and promotes the excretion of sodium, chloride and water. The renal excretion of potassium and magnesium increases dose-dependently, while calcium is reabsorbed to a greater extent. Hydrochlorothiazide decreases plasma volume and extracellular fluid and reduces cardiac output and blood pressure. During long-term therapy, reduced peripheral resistance contributes to the blood pressure reduction.

Large clinical studies have shown that long-term treatment with hydrochlorothiazide reduces the risk for cardiovascular morbidity and mortality.

Candesartan and hydrochlorothiazide have additive antihypertensive effects.

In hypertensive patients, candesartan cilexetil/hydrochlorothiazide results in a dose-dependent and long-lasting reduction in arterial blood pressure without reflex increase in heart rate. There is no indication of serious or exaggerated first dose hypotension or rebound effect after cessation of

 $\label{lem:candesartan} Candesartan \ cilexetil/Hydrochloorthiazide \ Torrent \ 8 \ mg/12,5 \ mg, \ 16 \ mg/12,5 \ mg, \ 32 \ mg/12,5 \ mg. \ 32 \ mg/25 \ mg \ tabletten - Page \ 12 \ NL/H/2070/001-002,005-006/DC$ 

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treatment. After administration of a single dose of candesartan cilexetil/hydrochlorothiazide, onset of the antihypertensive effect generally occurs within 2 hours. With continuous treatment, most of the reduction in blood pressure is attained within four weeks and is sustained during long-term treatment. Candesartan cilexetil/hydrochlorothiazide once daily provides effective and smooth blood pressure reduction over 24 hours, with little difference between maximum and trough effects during the dosing interval.

In a double-blind randomised study, the combination candesartan/hydrochlorothiazide 16 mg/12.5 mg once daily reduced blood pressure significantly more, and controlled significantly more patients, than the combination losartan/hydrochlorothiazide 50 mg/12.5 mg once daily.

In double-blind, randomised studies, the incidence of adverse events, especially cough, was lower during treatment with candesartan cilexetil/hydrochlorothiazide than during treatment with combinations of ACE inhibitors and hydrochlorothiazide.

In two clinical studies (randomised, double-blind, placebo controlled, parallel group) including 275 and 1524 randomised patients, respectively, the candesartan cilexetil/hydrochlorothiazide combinations 32 mg/12.5 mg and 32 mg/25 mg resulted in blood pressure reductions of 22/15 mmHg and 21/14 mmHg, respectively, and were significantly more effective than the respective monocomponents.

In a randomised, double-blind, parallel group clinical study including 1975 randomised patients not optimally controlled on 32 mg candesartan cilexetil once daily, the addition of 12.5 mg or 25 mg hydrochlorothiazide resulted in additional blood pressure reductions. The candesartan cilexetil/hydrochlorothiazide combination 32 mg/25 mg was significantly more effective than the 32 mg/12.5 mg combination, and the overall mean blood pressure reductions were 16/10 mmHg and 13/9 mmHg, respectively.

Candesartan cilexetil/hydrochlorothiazide is similarly effective in patients irrespective of age and gender.

Currently there are no data on the use of candesartan cilexetil/hydrochlorothiazide in patients with renal disease/nephropathy, reduced left ventricular function/congestive heart failure and post myocardial infarction.

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 combination of an ACE-inhibitor with an angiotensin II receptor blocker.

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 angiotensin II receptor blockers.

ACE-inhibitors and angiotensin II receptor blockers should therefore not be used concomitantly in patients with diabetic nephropathy.

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 angiotensin II receptor blocker 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. CV 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.

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Non-melanoma skin cancer: Based on available data from epidemiological studies, cumulative dose-dependent association between HCTZ and NMSC has been observed. One study included a population comprised of 71,533 cases of BCC and of 8,629 cases of SCC matched to 1,430,833 and 172,462 population controls, respectively. High HCTZ use (≥ 50,000 mg cumulative) was associated with an adjusted OR of 1.29 (95% CI: 1.23-1.35) for BCC and 3.98 (95% CI: 3.68-4.31) for SCC. A clear cumulative dose response relationship was observed for both BCC and SCC. Another study showed a possible association between lip cancer (SCC) and exposure to HCTZ: 633 cases of lip-cancer were matched with 63,067 population controls, using a risk-set sampling strategy. A cumulative dose-response relationship was demonstrated with an adjusted OR 2.1 (95% CI: 1.7-2.6) increasing to OR 3.9 (3.0-4.9) for high use (~25,000 mg) and OR 7.7 (5.7-10.5) for the highest cumulative dose (~100,000 mg) (see also section 4.4).

### 5.2 Pharmacokinetic properties

Concomitant administration of candesartan cilexetil and hydrochlorothiazide has no clinically significant effect on the pharmacokinetics of either medicinal product.

## Absorption and distribution

Candesartan cilexetil

Following oral administration, candesartan cilexetil is converted to the active substance candesartan. The absolute bioavailability of candesartan is approximately 40% after an oral solution of candesartan cilexetil. The relative bioavailability of a tablet formulation of candesartan cilexetil compared with the same oral solution is approximately 34% with very little variability. The mean peak serum concentration (C<sub>max</sub>) is reached 3-4 hours following tablet intake. The candesartan serum concentrations increase linearly with increasing doses in the therapeutic dose range. No gender related differences in the pharmacokinetics of candesartan have been observed. The area under the serum concentration *versus* time curve (AUC) of candesartan is not significantly affected by food.

Candesartan is highly bound to plasma protein (more than 99%). The apparent volume of distribution of candesartan is 0.1 l/kg.

## Hydrochlorothiazide

Hydrochlorothiazide is rapidly absorbed from the gastrointestinal tract with an absolute bioavailability of approximately 70%. Concomitant intake of food increases the absorption by approximately 15%. The bioavailability may decrease in patients with cardiac failure and pronounced oedema.

The plasma protein binding of hydrochlorothiazide is approximately 60%. The apparent volume of distribution is approximately 0.8 l/kg.

## **Biotransformation and elimination**

Candesartan cilexetil

Candesartan is mainly eliminated unchanged via urine and bile and only to a minor extent eliminated by hepatic metabolism (CYP2C9). Available interaction studies indicate no effect on CYP2C9 and CYP3A4. Based on *in vitro* data, no interaction would be expected to occur *in vivo* with medicinal products whose metabolism is dependent upon cytochrome P450 isoenzymes CYP1A2, CYP2A6, CYP2C9, CYP2C19, CYP2D6, CYP2E1 or CYP3A4. The terminal half-life (t½) of candesartan is approximately 9 hours. There is no accumulation following multiple doses. The half-life of candesartan remains unchanged (approximately 9 h) after administration of candesartan cilexetil in combination with hydrochlorothiazide. No additional accumulation of candesartan occurs after repeated doses of the combination compared to monotherapy.

Total plasma clearance of candesartan is about 0.37 ml/min/kg, with a renal clearance of about 0.19 ml/min/kg. The renal elimination of candesartan is both by glomerular filtration and active tubular secretion. Following an oral dose of <sup>14</sup>C-labelled candesartan cilexetil, approximately 26% of the

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dose is excreted in the urine as candesartan and 7% as an inactive metabolite while approximately 56% of the dose is recovered in the faeces as candesartan and 10% as the inactive metabolite.

#### *Hydrochlorothiazide*

Hydrochlorothiazide is not metabolised and is excreted almost entirely as unchanged drug by glomerular filtration and active tubular secretion. The terminal t½ of hydrochlorothiazide is approximately 8 hours. Approximately 70% of an oral dose is eliminated in the urine within 48 hours. The half-life of hydrochlorothiazide remains unchanged (approximately 8 h) after administration of hydrochlorothiazide in combination with candesartan cilexetil. No additional accumulation of hydrochlorothiazide occurs after repeated doses of the combination compared to monotherapy.

# Pharmacokinetics in special populations

Candesartan cilexetil

In elderly subjects (over 65 years),  $C_{max}$  and AUC of candesartan are increased by approximately 50% and 80%, respectively in comparison to young subjects. However, the blood pressure response and the incidence of adverse events are similar after a given dose of candesartan cilexetil/hydrochlorothiazide in young and elderly patients (see section 4.2).

In patients with mild to moderate renal impairment,  $C_{max}$  and AUC of candesartan increased during repeated dosing by approximately 50% and 70%, respectively, but the terminal  $t\frac{1}{2}$  was not altered, compared to patients with normal renal function. The corresponding changes in patients with severe renal impairment were approximately 50% and 110%, respectively. The terminal  $t\frac{1}{2}$  of candesartan was approximately doubled in patients with severe renal impairment. The pharmacokinetics in patients undergoing haemodialysis were similar to those in patients with severe renal impairment.

In two studies, both including patients with mild to moderate hepatic impairment, there was an increase in the mean AUC of candesartan of approximately 20% in one study and 80% in the other study (see section 4.2). There is no experience in patients with severe hepatic impairment.

## Hydrochlorothiazide

The terminal t½ of hydrochlorothiazide is prolonged in patients with renal impairment.

### 5.3 Preclinical safety data

There were no qualitative new toxic findings with the combination compared to that observed for each component. In preclinical safety studies candesartan itself had effects on the kidneys and on red cell parameters at high doses in mice, rats, dogs and monkeys. Candesartan caused a reduction of red blood cell parameters (erythrocytes, haemoglobin, haematocrit). Effects on the kidneys (such as regeneration, dilatation and basophilia in tubules; increased plasma concentrations of urea and creatinine) were induced by candesartan which could be secondary to the hypotensive effect leading to alterations of renal perfusion. Addition of hydrochlorothiazide potentiates the nephrotoxicity of candesartan. Furthermore, candesartan induced hyperplasia/hypertrophy of the juxtaglomerular cells. These changes were considered to be caused by the pharmacological action of candesartan and to be of little clinical relevance.

Foetotoxicity has been observed in late pregnancy with candesartan. The addition of hydrochlorothiazide did not significantly affect the outcome of foetal development studies in rats, mice or rabbits (see section 4.6).

Candesartan and hydrochlorothiazide both show genotoxic activity at very high concentrations/doses. Data from *in vitro* and *in vivo* genotoxicity testing indicate that candesartan and hydrochlorothiazide are unlikely to exert any mutagenic or clastogenic activity under conditions of clinical use.

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There was no evidence that either compound is carcinogenic.

#### 6. PHARMACEUTICAL PARTICULARS

# 6.1 List of excipients

For Candesartan cilexetil/Hydrochloorthiazide Torrent 8 mg/12,5 mg and Candesartan cilexetil/Hydrochloorthiazide Torrent 16 mg/12,5 mg

Lactose monohydrate

Maize starch

Hypromellose 2910 (E464)

Calcium stearate

Hydroxypropyl cellulose (E463)

Disodium edetate

Microcrystalline cellulose (E460)

For Candesartan cilexetil/Hydrochloorthiazide Torrent 16 mg/12,5 mg additionally:

Ferric oxide red (E172)

Ferric oxide yellow (E172)

For Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/12,5 mg and Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/25 mg

Lactose monohydrate

Maize starch

Calcium stearate

Hydroxypropylcellulose (E463)

Disodium edetate

Carmellose calcium (E466)

Ethyl cellulose (E462)

Microcrystalline cellulose (E460)

Ferric oxide yellow (E172)

For Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/25 mg additionally: Ferric oxide red (E172)

## 6.2 Incompatibilities

Not applicable.

#### 6.3 Shelf-life

2 years

For Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/12,5 mg and Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/25 mg

HDPE bottles:

Shelf life after first opening of the bottle: 90 days

## 6.4 Special precautions for storage

Do not store above 25°C.

# 6.5 Nature and contents of container

Alu-Alu blister or transparent PVC/PVDC-Al blister

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Candesartan cilexetil/Hydrochloorthiazide Torrent is available in packages of 10, 14, 28, 30, 50, 56, 60, 98 and 100 tablets.

For Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/12,5 mg and Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/25 mg

**HDPE** bottles

Candesartan cilexetil/Hydrochloorthiazide Torrent is available in packages of 30, 90 and 500 (hospital pack, for use on more than one patient) tablets.

Not all pack sizes may be marketed.

## 6.6 Special precautions for disposal and other handling

No special requirements.

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

#### 7. MARKETING AUTHORISATION HOLDER

Torrent Pharma GmbH Suedwestpark 50 90449 Nuernberg Duitsland Tel +49 (0) 911 4302 970 Fax +49 (0) 911 4302 971

E-mail: mail@torrentpharma.com

# 8. MARKETING AUTHORISATION NUMBER(S)

Candesartan cilexetil/Hydrochloorthiazide Torrent 8 mg/12,5 mg tabletten: RVG 107846 Candesartan cilexetil/Hydrochloorthiazide Torrent 16 mg/12,5 mg tabletten: RVG 107847 Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/12,5 mg tabletten: RVG 114104 Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/25 mg tabletten: RVG 114105

## 9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Datum van eerste verlening van de vergunning:

Candesartan cilexetil/Hydrochloorthiazide Torrent 8 mg/12,5 mg, 16 mg/12,5 mg tabletten: 23.08.2011 Candesartan cilexetil/Hydrochloorthiazide Torrent 32 mg/12,5 mg, 32 mg/25 mg tabletten: 18.08.2014 Datum van laatste verlenging: 1 december 2015

## 10. DATE OF REVISION OF THE TEXT

Laatste gedeeltelijke wijziging betreft rubriek 6.4: 2 november 2023.