

## **CAMPTO®**

### **1. NAME OF THE MEDICINAL PRODUCT**

CAMPTO® 20 mg/mL concentrate for solution for infusion.

### **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

The concentrate contains 20 mg/mL irinotecan hydrochloride, trihydrate (equivalent to 17.33 mg/mL irinotecan).

One vial of 2 mL contains 34.66 mg of irinotecan as 40 mg of irinotecan hydrochloride, trihydrate (40 mg/2 mL).

One vial of 5 mL contains 86.65 mg of irinotecan as 100 mg of irinotecan hydrochloride, trihydrate (100 mg/5 mL).

One vial of 15 mL contains 259.95 mg of irinotecan as 300 mg of irinotecan hydrochloride, trihydrate (300 mg/15 mL).

For the full list of excipients, see section 6.1.

Excipient(s) with known effect  
Sorbitol

CAMPTO 20 mg/mL concentrate for solution for infusion contains 90 mg of sorbitol in each 2 mL of solution, which is equivalent to 90 mg/2 mL.

CAMPTO 20 mg/mL concentrate for solution for infusion contains 225 mg of sorbitol in each 5 mL of solution, which is equivalent to 225 mg/5 mL.

CAMPTO 20 mg/mL concentrate for solution for infusion contains 675 mg of sorbitol in each 15 mL of solution, which is equivalent to 675 mg/15 mL.

### **3. PHARMACEUTICAL FORM**

Concentrate for solution for infusion.

### **4. CLINICAL PARTICULARS**

#### **4.1. Therapeutic indication**

CAMPTO® is indicated for the treatment of patients with metastatic colorectal cancer:

- In combination with 5-fluorouracil and folinic acid in patients without prior chemotherapy for metastatic disease.
- As a single agent in patients who have failed an established 5-fluorouracil containing treatment regimen.
- For the treatment of patients with small cell lung cancer.
- For the treatment of patients with gastric cancer.
- Irinotecan in combination with leucovorin, oxaliplatin and 5-fluorouracil for the first-line treatment of patients with metastatic pancreatic adenocarcinoma (based on NCCN guidelines, version 2.2015).

## 4.2. Posology and method of administration

For adults only. CAMPTO® solution for infusion should be infused into a peripheral or central vein.

### Recommended dosage:

In monotherapy (for previously treated patient): The recommended dosage of CAMPTO® is 350 mg/m<sup>2</sup> administered as an intravenous infusion over a 30- to 90- minute period every three weeks (see sections 4.4 and 6.6 ).

In combination therapy (for previously untreated patient): Safety and efficacy of CAMPTO® in combination with 5-fluorouracil (5FU) and folinic acid (FA) have been assessed with the following schedule (see section 5.1):

- CAMPTO® plus 5FU/FA in every-2-weeks schedule

The recommended dose of CAMPTO® is 180 mg/m<sup>2</sup> administered once every-2-weeks as an intravenous infusion over a 30- to 90-minute period, followed by infusion with folinic acid and 5-fluorouracil.

### Dosage adjustments:

CAMPTO® should be administered after appropriate recovery of all adverse events to Grade 0 or 1 NCI-CTC grading (National Cancer Institute Common Toxicity Criteria) and when treatment-related diarrhoea is fully resolved.

At the start of a subsequent infusion of therapy, the dose of CAMPTO®, and 5FU when applicable, should be decreased according to the worst grade of adverse events observed in the prior infusion. Treatment should be delayed by 1 to 2 weeks to allow recovery from treatment-related adverse events.

With the following adverse events a dose reduction of 15 to 20% should be applied for CAMPTO® and/or 5FU when applicable:

- haematological toxicity [neutropenia Grade 4, febrile neutropenia (neutropenia Grade 3-4 and fever Grade 2-4), thrombocytopenia and leukopenia (Grade 4)],
- non-haematological toxicity (Grade 3-4).

### Treatment duration:

Treatment with CAMPTO® should be continued until there is an objective progression of the disease or an unacceptable toxicity.

### Special populations:

Patients with impaired hepatic function: In monotherapy: Blood bilirubin levels [up to 3 times the upper limit of the normal range (ULN)] in patients with performance status ≤ 2, should determine the starting dose of CAMPTO®. In these patients with hyperbilirubinemia and prothrombin time greater than 50%, the clearance of irinotecan is decreased (see section 5.2) and therefore the risk of hepatotoxicity is increased. Thus, weekly monitoring of complete blood counts should be conducted in this patient population.

- In patients with bilirubin up to 1.5 times the ULN, the recommended dosage of CAMPTO® is 350 mg/m<sup>2</sup>,

- In patients with bilirubin ranging from 1.5 to 3 times the ULN, the recommended dosage of CAMPTO<sup>®</sup> is 200 mg/m<sup>2</sup>.
- Patients with bilirubin beyond to 3 times the ULN should not be treated with CAMPTO<sup>®</sup> (see sections 4.3 and 4.4).

No data are available in patients with hepatic impairment treated by CAMPTO<sup>®</sup> in combination.

Patients with impaired renal function: CAMPTO<sup>®</sup> is not recommended for use in patients with impaired renal function, as studies in this population have not been conducted (see sections 4.4 and 5.2).

Elderly: No specific pharmacokinetic studies have been performed in elderly. However, the dose should be chosen carefully in this population due to their greater frequency of decreased biological functions. This population should require more intense surveillance (see section 4.4).

#### 4.3. Contraindications

- Chronic inflammatory bowel disease and/or bowel obstruction (see section 4.4).
- Hypersensitivity to the active substance(s) or to any of the excipients listed in section 6.1
- Breast-feeding (see sections 4.4 and 4.6).
- Bilirubin > 3 times the upper limit of the normal range (see section 4.4).
- Severe bone marrow failure.
- WHO performance status > 2.
- Concomitant use with St. John's Wort (see section 4.5).
- Live attenuated vaccines (see section 4.5).

#### 4.4. Special warnings and precautions for use

The use of CAMPTO<sup>®</sup> should be confined to units specialised in the administration of cytotoxic chemotherapy and it should only be administered under the supervision of a physician qualified in the use of anticancer chemotherapy.

Given the nature and incidence of adverse events, CAMPTO<sup>®</sup> will only be prescribed in the following cases after the expected benefits have been weighted against the possible therapeutic risks:

- in patients presenting a risk factor, particularly those with a WHO performance status = 2.
- in the few rare instances where patients are deemed unlikely to observe recommendations regarding management of adverse events (need for immediate and prolonged antidiarrhoeal treatment combined with high fluid intake at onset of delayed diarrhoea). Strict hospital supervision is recommended for such patients.

When CAMPTO<sup>®</sup> is used in monotherapy, it is usually prescribed with the every-3-week-dosage schedule. However, the weekly-dosage schedule (see section 5) may be considered in patients who may need a closer follow-up or who are at particular risk of severe neutropenia.

#### Delayed diarrhoea

Patients should be made aware of the risk of delayed diarrhoea occurring more than 24 hours after the administration of CAMPTO<sup>®</sup> and at any time before the next cycle. In monotherapy, the median time of onset of the first liquid stool was on day 5 after the infusion of CAMPTO<sup>®</sup>. Patients should quickly inform their physician of its occurrence and start appropriate therapy immediately.

Patients with an increased risk of diarrhoea are those who had a previous abdominal/pelvic radiotherapy, those with baseline hyperleucocytosis, those with performance status  $\geq 2$  and women. If not properly treated, diarrhoea can be life-threatening, especially if the patient is concomitantly neutropenic.

As soon as the first liquid stool occurs, the patient should start drinking large volumes of beverages containing electrolytes and an appropriate antidiarrhoeal therapy must be initiated immediately. This antidiarrhoeal treatment will be prescribed by the department where CAMPTO<sup>®</sup> has been administered. After discharge from the hospital, the patients should obtain the prescribed medicinal products so that they can treat the diarrhoea as soon as it occurs. In addition, they must inform their physician or the department administering CAMPTO<sup>®</sup> when/if diarrhoea is occurring.

The currently recommended antidiarrhoeal treatment consists of high doses of loperamide (4 mg for the first intake and then 2 mg every 2 hours). This therapy should continue for 12 hours after the last liquid stool and should not be modified. In no instance should loperamide be administered for more than 48 consecutive hours at these doses, because of the risk of paralytic ileus, nor for less than 12 hours.

In addition to the antidiarrhoeal treatment, a prophylactic broad-spectrum antibiotic should be given, when diarrhoea is associated with severe neutropenia (neutrophil count  $< 500$  cells/mm<sup>3</sup>).

In addition to the antibiotic treatment, hospitalisation is recommended for management of the diarrhoea, in the following cases:

- Diarrhoea associated with fever,
- Severe diarrhoea (requiring intravenous hydration),
- Diarrhoea persisting beyond 48 hours following the initiation of high-dose loperamide therapy.

Loperamide should not be given prophylactically, even in patients who experienced delayed diarrhoea at previous cycles.

In patients who experienced severe diarrhoea, a reduction in dose is recommended for subsequent cycles (see section 4.2).

## **Haematology**

In clinical studies, the frequency of NCI CTC Grade 3 and 4 neutropenia has been significantly higher in patients who received previous pelvic/abdominal irradiation than in those who had not received such irradiation. Patients with baseline serum total bilirubin levels of 1.0 mg/dL or more have also had a significantly greater likelihood of experiencing first-cycle Grade 3 or 4 neutropenia than those with bilirubin levels that were less than 1.0 mg/dL.

Weekly monitoring of complete blood cell counts is recommended during CAMPTO<sup>®</sup> treatment. Patients should be aware of the risk of neutropenia and the significance of fever. Febrile neutropenia (temperature  $> 38^{\circ}\text{C}$  and neutrophil count  $\leq 1,000$  cells/mm<sup>3</sup>) should be urgently treated in the hospital with broad-spectrum intravenous antibiotics.

In patients who experienced severe haematological events, a dose reduction is recommended for subsequent administration (see section 4.2).

There is an increased risk of infections and haematological toxicity in patients with severe diarrhoea. In patients with severe diarrhoea, complete blood cell counts should be performed.

## **Liver impairment**

Liver function tests should be performed at baseline and before each cycle.

Weekly monitoring of complete blood counts should be conducted in patients with bilirubin ranging from 1.5 to 3 times the ULN, due to decrease of the clearance of irinotecan (see section 5.2) and thus increasing the risk of hematotoxicity in this population. For patients with a bilirubin > 3 times the ULN (see section 4.3).

### **Nausea and vomiting**

A prophylactic treatment with antiemetics is recommended before each treatment with CAMPTO®. Nausea and vomiting have been frequently reported. Patients with vomiting associated with delayed diarrhoea should be hospitalised as soon as possible for treatment.

### **Acute cholinergic syndrome**

If acute cholinergic syndrome appears (defined as early diarrhoea and various other signs and symptoms such as sweating, abdominal cramping, myosis and salivation), atropine sulphate (0.25 mg subcutaneously) should be administered unless clinically contraindicated (see section 4.8).

These symptoms may be observed during or shortly after infusion of irinotecan, are thought to be related to the anticholinesterase activity of the irinotecan parent compound, and are expected to occur more frequently with higher irinotecan doses.

Caution should be exercised in patients with asthma. In patients who experienced an acute and severe cholinergic syndrome, the use of prophylactic atropine sulphate is recommended with subsequent doses of CAMPTO®.

### **Respiratory disorders**

Interstitial lung disease presenting as lung infiltration is uncommon during irinotecan therapy. Interstitial lung disease can be fatal. Risk factors possibly associated with the development of interstitial lung disease include the use of pneumotoxic medicinal products, radiation therapy and colony stimulating factors. Patients with risk factors should be closely monitored for respiratory symptoms before and during irinotecan therapy.

### **Extravasation**

While irinotecan is not a known vesicant, care should be taken to avoid extravasation and the infusion site should be monitored for signs of inflammation. Should extravasation occur, flushing the site and application of ice is recommended.

### **Elderly**

Due to the greater frequency of decreased biological functions, in particular hepatic function, in elderly patients, dose selection with CAMPTO® should be cautious in this population (see section 4.2).

### **Chronic inflammatory bowel disease and/or bowel obstruction**

Patients must not be treated with CAMPTO® until resolution of the bowel obstruction (see section 4.3).

## **Renal function**

Increases in serum creatinine or blood urea nitrogen have been observed. There have been cases of acute renal failure. These events have generally been attributed to complications of infection or to dehydration related to nausea, vomiting, or diarrhoea. Rare instances of renal dysfunction due to tumour lysis syndrome have also been reported.

## **Irradiation therapy**

Patients who have previously received pelvic/abdominal irradiation are at increased risk of myelosuppression following the administration of irinotecan. Physicians should use caution in treating patients with extensive prior irradiation (e.g., >25% of bone marrow irradiated and within 6 weeks prior to start of treatment with irinotecan). Dosing adjustment may apply to this population (see section 4.2).

## **Cardiac disorders**

Myocardial ischaemic events have been observed following irinotecan therapy predominately in patients with underlying cardiac disease, other known risk factors for cardiac disease, or previous cytotoxic chemotherapy (see section 4.8).

Consequently, patients with known risk factors should be closely monitored, and action should be taken to try to minimize all modifiable risk factors (e.g., smoking, hypertension, and hyperlipidaemia).

## **Vascular disorders**

Irinotecan has been rarely associated with thromboembolic events (pulmonary embolism, venous thrombosis, and arterial thromboembolism) in patients presenting with multiple risk factors in addition to the underlying neoplasm.

## **Others**

Concomitant administration of irinotecan with a strong inhibitor (e.g. ketoconazole) or inducer (e.g. rifampicin, carbamazepine, phenobarbital, phenytoin, apalutamide) of CYP3A4 may alter the metabolism of irinotecan and should be avoided (see section 4.5).

Infrequent cases of renal insufficiency, hypotension or circulatory failure have been observed in patients who experienced episodes of dehydration associated with diarrhoea and/or vomiting, or sepsis.

### Contraception in women of childbearing potential/ men:

Due to the potential for genotoxicity, advise female patients of reproductive potential to use highly effective contraception during treatment and for 6 months after the last dose of irinotecan.

Due to the potential for genotoxicity, advise male patients with female partners of reproductive potential to use effective contraception during treatment and for 3 months after the last dose of irinotecan (see section 4.6).

## **Breast-feeding**

**Due to the potential for adverse reactions in nursing infants, breast-feeding should be discontinued for the duration of CAMPTO therapy (see sections 4.3 and 4.6).**

This medicine contains sorbitol (see section 2). Sorbitol is a source of fructose. Patients with hereditary fructose intolerance (HFI) must not be given this medicine unless strictly necessary.

Babies and young children (below 2 years of age) may not yet be diagnosed with HFI. Medicines (containing fructose) given intravenously may have life-threatening effects in individuals with HFI and should not be administered in this population unless there is an overwhelming clinical need and no alternatives are available.

A detailed history with regard to HFI symptoms has to be taken of each patient prior to being given this medicinal product.

This medicine contains less than 1 mmol sodium (23 mg) per dose, that is to say essentially 'sodium-free'.

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

##### **Concomitant use contraindicated (see section 4.3)**

**Saint John's Wort:** Decrease in the active metabolite of irinotecan, SN-38, plasma levels. In a small pharmacokinetic study (n=5), in which irinotecan 350 mg/m<sup>2</sup> was co-administered with St. John's Wort (*Hypericum perforatum*) 900 mg, a 42% decrease in the active metabolite of irinotecan, SN-38, plasma concentrations was observed. As a result, St. John's Wort should not be administered with irinotecan.

**Live attenuated vaccines (e.g. yellow fever vaccine):** Risk of generalised reaction to vaccines, possibly fatal. Concomitant use is contraindicated during treatment with irinotecan and for 6 months following discontinuation of chemotherapy. Killed or inactivated vaccines may be administered; however, the response to such vaccines may be diminished.

##### **Concomitant use not recommended (see section 4.4)**

Concurrent administration of irinotecan with a strong inhibitors or inducers of cytochrome P450 3A4 (CYP3A4) may alter the metabolism of irinotecan and should be avoided (see section 4.4):

**Strong CYP3A4 and/or UGT1A1 inducing medicinal products:** (e.g., rifampicin, carbamazepine, phenobarbital, phenytoin or apalutamide): Risk of reduced exposure to irinotecan, SN-38 and SN-38 glucuronide and reduced pharmacodynamic effects. Several studies have shown that concomitant administration of CYP3A4-inducing anticonvulsant medicinal products leads to reduced exposure to irinotecan, SN-38 and SN-38 glucuronide and reduced pharmacodynamic effects. The effects of such anticonvulsant medicinal products were reflected by a decrease in AUC of SN-38 and SN-38G by 50% or more. In addition to induction of CYP3A4 enzymes, enhanced glucuronidation and enhanced biliary excretion may play a role in reducing exposure to irinotecan and its metabolites. Additionally with phenytoin: Risk of exacerbation of convulsions resulting from the decrease of phenytoin digestive absorption by cytotoxic medicinal products.

**Strong CYP3A4 inhibitors:** (e.g., ketoconazole, itraconazole, voriconazole, posaconazole, protease inhibitors, clarithromycin, erythromycin, telithromycin): A study has shown that the co-administration of ketoconazole resulted in a decrease in the AUC of APC of 87% and in an increase in the AUC of SN-38 of 109% in comparison to irinotecan given alone.

**UGT1A1 inhibitors** (e.g., atazanavir, ketoconazole, regorafenib):

Risk to increase systemic exposure to SN-38, the active metabolite of irinotecan. Physicians should take this into consideration if the combination is unavoidable.

**Other CYP3A4 inhibitors** (e.g., crizotinib, idelalisib):

Risk of increase in irinotecan toxicity, due to a decrease in irinotecan metabolism by crizotinib or idelalisib.

#### **Caution for use**

**Vitamin K antagonists:** Increased risk of haemorrhage and thrombotic events in tumoral diseases. If vitamin K antagonist are indicated, an increased frequency in the monitoring of INR (International Normalised Ratio) is required.

#### **Concomitant use to take into consideration**

**Immunodepressant agents:** (e.g., ciclosporine, tacrolimus): Excessive immunosuppression with risk of lymphoproliferation.

**Neuromuscular blocking agents:** Interaction between irinotecan and neuromuscular blocking agents cannot be ruled out. Since CAMPTO® has anticholinesterase activity, medicinal products with anticholinesterase activity may prolong the neuromuscular blocking effects of suxamethonium and the neuromuscular blockade of non-depolarising medicinal products may be antagonised.

#### **Other combinations**

**5-fluorouracil/folinic acid:** Co-administration of 5-fluorouracil/folinic acid in the combination regimen does not change the pharmacokinetics of irinotecan.

**Bevacizumab:** Results from a dedicated drug-drug interaction trial demonstrated no significant effect of bevacizumab on the pharmacokinetics of irinotecan and its active metabolite SN-38. However, this does not preclude any increase of toxicities due to their pharmacological properties.

**Cetuximab:** There is no evidence that the safety profile of irinotecan is influenced by cetuximab or vice versa.

**Antineoplastic agents (including flucytosine as a prodrug for 5-fluorouracil):** Adverse effects of irinotecan, such as myelosuppression, may be exacerbated by other antineoplastic agents having a similar adverse-effect profile.

### **4.6. Fertility, pregnancy and lactation**

#### **Contraception**

Due to the potential for genotoxicity, advise female patients of reproductive potential to use highly effective contraception during treatment and for 6 months after the last dose of irinotecan (see section 4.4).

Due to the potential for genotoxicity, advise male patients with female partners of reproductive potential to use effective contraception during treatment and for 3 months after the last dose of irinotecan (see section 4.4).

#### **Pregnancy**

There are limited data from the use of irinotecan in pregnant women. Irinotecan has been shown to be embryotoxic and teratogenic in animals (See section 5.3). Therefore, based on results from animal studies and the mechanism of action of irinotecan, CAMPTO® should not be used during pregnancy unless clearly necessary.

Women of childbearing potential should not be started on irinotecan until pregnancy is excluded. Pregnancy should be avoided if either partner is receiving irinotecan

#### Breast-feeding

The available data are limited but suggested that irinotecan and its metabolite are excreted in human milk. Consequently, because of the potential for adverse reactions in nursing infants, breast-feeding should be discontinued for the duration of CAMPTO® therapy (see sections 4.3 and 4.4).

#### Fertility

There are no human data on the effect of irinotecan on fertility. In animals adverse effects of irinotecan on the fertility of offspring have been documented (see section 5.3). **Prior to starting to take CAMPTO consider advising patients on the preservation of gametes.**

### **4.7. Effects on ability to drive and use machines**

CAMPTO® has moderate influence on the ability to drive and use machines. Patients should be warned about the potential for dizziness or visual disturbances which may occur within 24 hours following the administration of CAMPTO®, and advised not to drive or operate machinery if these symptoms occur.

### **4.8. Undesirable effects**

## **CLINICAL STUDIES**

Adverse reaction data have been extensively collected from studies in metastatic colorectal cancer; the frequencies are presented below. The adverse reactions for other indications are expected to be similar to those for colorectal cancer.

The most common ( $\geq 1/10$ ), dose-limiting adverse reactions of irinotecan are delayed diarrhoea (occurring more than 24 hours after administration) and blood disorders including neutropenia, anaemia and thrombocytopenia.

Neutropenia is a dose-limiting toxic effect. Neutropenia was reversible and not cumulative; the median day to nadir was 8 days whatever the use in monotherapy or in combination therapy.

Very commonly severe transient acute cholinergic syndrome was observed.

The main symptoms were defined as early diarrhoea and various other symptoms such as abdominal pain, sweating, myosis and increased salivation occurring during or within the first 24 hours after the infusion of CAMPTO®. These symptoms disappear after atropine administration (see section 4.4).

#### MONOTHERAPY

The following adverse reactions considered to be possibly or probably related to the administration of CAMPTO® have been reported from 765 patients at the recommended dose of 350 mg/m<sup>2</sup> in monotherapy. Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness. Frequencies are defined as: 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  $< 1/1,000$ ), and very rare ( $< 1/10,000$ ).

<b>Adverse Reactions Reported with CAMPTO® in Monotherapy (350 mg/m<sup>2</sup> every-3-weeks schedule)</b>		
<b>MedDRA System Organ Class</b>	<b>Frequency Category</b>	<b>Preferred Term</b>
Infections and infestations	Common	Infection
Blood and lymphatic system disorders	Very common	Neutropenia
	Very common	Anaemia
	Common	Thrombocytopenia
	Common	Febrile neutropenia
Metabolism and nutrition disorders	Very common	Decreased appetite
Nervous system disorders	Very common	Cholinergic syndrome
Gastrointestinal disorders	Very common	Diarrhoea
	Very common	Vomiting
	Very common	Nausea
	Very common	Abdominal pain
	Common	Constipation
Skin and subcutaneous tissue disorders	Very common	Alopecia (reversible)
General disorders and administration site conditions	Very common	Mucosal inflammation
	Very common	Pyrexia
	Very common	Asthenia
Investigations	Common	Blood creatinine increased
	Common	Transaminases (ALT and AST) increased
	Common	Blood bilirubin increased
	Common	Blood alkaline phosphatase increased

#### Description of selected adverse reactions (monotherapy)

**Severe diarrhoea** was observed in 20% of patients who follow recommendations for the management of diarrhoea. Of the evaluable cycles, 14% have severe diarrhoea. The median time of onset of the first liquid stool was on day 5 after the infusion of CAMPTO®.

**Nausea and vomiting** were severe in approximately 10% of patients treated with antiemetics.

**Constipation** has been observed in less than 10% of patients.

**Neutropenia** was observed in 78.7% of patients and was severe (neutrophil count < 500 cells/mm<sup>3</sup>) in 22.6% of patients. Of the evaluable cycles, 18 % had a neutrophil count below 1,000 cells/mm<sup>3</sup> including 7.6% with a neutrophil count < 500 cells/mm<sup>3</sup>.

Total recovery was usually reached by day 22.

**Febrile neutropenia** was reported in 6.2% of patients and in 1.7% of cycles.

Infections occurred in about 10.3% of patients (2.5% of cycles) and were associated with severe neutropenia in about 5.3% of patients (1.1% of cycles), and resulted in death in 2 cases.

**Anaemia** was reported in about 58.7% of patients (8% with haemoglobin < 8 g/dl and 0.9% with haemoglobin < 6.5 g/dl).

**Thrombocytopenia** (< 100,000 cells/mm<sup>3</sup>) was observed in 7.4 % of patients and 1.8% of cycles with 0.9% with platelet count ≤ 50,000 cells/mm<sup>3</sup> and 0.2% of cycles.

Nearly all the patients showed a recovery by day 22.

#### **Acute cholinergic syndrome**

Severe transient acute cholinergic syndrome was observed in 9 % of patients treated in monotherapy.

**Asthenia** was severe in less than 10 % of patients treated in monotherapy. The causal relationship to CAMPTO® has not been clearly established.

**Pyrexia** in the absence of infection and without concomitant severe neutropenia, occurred in 12 % of patients treated in monotherapy.

#### **Laboratory tests**

Transient and mild to moderate increases in serum levels of either transaminases, alkaline phosphatase or bilirubin were observed in 9.2 %, 8.1 % and 1.8 % of the patients, respectively, in the absence of progressive liver metastasis.

Transient and mild to moderate increases of serum levels of creatinine have been observed in 7.3 % of the patients.

#### **COMBINATION THERAPY**

Adverse reactions detailed in this section refer to irinotecan.

CAMPTO® has been studied in combination with 5FU and FA for metastatic colorectal cancer. Safety data of adverse reactions from clinical studies demonstrate very commonly observed NCI Grade 3 or 4 possibly or probably-related adverse events in the blood and the lymphatic system disorders, gastrointestinal disorders, and skin and subcutaneous tissue disorders MedDRA System Organ Classes.

The following adverse reactions considered to be possibly or probably related to the administration of CAMPTO® have been reported from 145 patients treated by CAMPTO® in combination therapy with 5FU/FA in every-2-weeks schedule at the recommended dose of 180 mg/m<sup>2</sup>.

<b>Adverse Reactions Reported with CAMPTO® in Combination Therapy (180 mg/m<sup>2</sup> every-2-weeks schedule)</b>		
<b>MedDRA System Organ Class</b>	<b>Frequency Category</b>	<b>Preferred Term</b>
Infections and infestations	Common	Infection
Blood and lymphatic system disorders	Very common	Thrombocytopenia
	Very common	Neutropenia
	Very common	Anaemia
	Common	Febrile neutropenia
Metabolism and nutrition disorders	Very common	Decreased appetite
Nervous system disorders	Very common	Cholinergic syndrome
Gastrointestinal disorders	Very common	Diarrhoea
	Very common	Vomiting
	Very common	Nausea
	Common	Abdominal pain
	Common	Constipation
Skin and subcutaneous tissue disorders	Very common	Alopecia (reversible)
General disorders and administration site conditions	Very common	Mucosal inflammation
	Very common	Asthenia
	Common	Pyrexia
Investigations	Very common	Transaminases (ALT and AST) increased
	Very common	Blood bilirubin increased
	Very common	Blood alkaline phosphatase increased

#### **Description of selected adverse reactions (combination therapy)**

**Severe diarrhoea** was observed in 13.1 % of patients who follow recommendations for the management of diarrhoea. Of the evaluable cycles, 3.9 % have a severe diarrhoea.

A lower incidence of severe **nausea and vomiting** was observed (2.1 % and 2.8 % of patients, respectively).

**Constipation** relative to CAMPTO® and/or loperamide has been observed in 3.4 % of patients.

**Neutropenia** was observed in 82.5% of patients and was severe (neutrophil count < 500 cells/mm<sup>3</sup>) in 9.8% of patients. Of the evaluable cycles, 67.3% had a neutrophil count below 1,000 cells/mm<sup>3</sup> including 2.7% with a neutrophil count < 500 cells/mm<sup>3</sup>. Total recovery was usually reached within 7-8 days.

**Febrile neutropenia** was reported in 3.4% of patients and in 0.9% of cycles.

Infections occurred in about 2% of patients (0.5% of cycles) and were associated with severe neutropenia in about 2.1% of patients (0.5% of cycles), and resulted in death in 1 case.

**Anaemia** was reported in 97.2% of patients (2.1% with haemoglobin < 8 g/dl).

**Thrombocytopenia** (< 100,000 cells/mm<sup>3</sup>) was observed in 32.6% of patients and 21.8% of cycles.

No severe thrombocytopenia (< 50,000 cells/mm<sup>3</sup>) has been observed.

#### **Acute cholinergic syndrome**

Severe transient acute cholinergic syndrome was observed in 1.4 % of patients treated in combination therapy.

**Asthenia** was severe in 6.2 % of patients treated in combination therapy. The causal relationship to CAMPTO® has not been clearly established. **Pyrexia in the absence of infection** and without concomitant severe neutropenia, occurred in 6.2 % of patients treated in combination therapy.

#### **Laboratory tests**

Transient serum levels (Grades 1 and 2) of either SGPT, SGOT, alkaline phosphatase or bilirubin were observed in 15%, 11%, 11% and 10% of the patients, respectively, in the absence of progressive liver metastasis. Transient Grade 3 were observed in 0%, 0%, 0% and 1% of the patients, respectively. No Grade 4 was observed.

Increases of amylase and/or lipase have been very rarely reported.

Rare cases of hypokalaemia and hyponatremia mostly related with diarrhoea and vomiting have been reported.

### **OTHER ADVERSE EVENTS REPORTED IN CLINICAL STUDIES WITH THE WEEKLY REGIMEN FOR CAMPTO®**

The following additional drug-related events have been reported in clinical studies with irinotecan: pain, sepsis, anorectal disorder, GI candida infection, hypomagnesaemia, rash, skin signs, gait disturbance, confusion, headache, syncope, flushing, bradycardia, urinary tract infection, breast pain, increased gamma-glutamyltransferase, extravasation, and tumour lysis syndrome, cardiovascular disorders (angina pectoris, cardiac arrest, myocardial infarction, myocardial ischaemia, peripheral vascular disorder, vascular disorder), and thromboembolic events (arterial thrombosis, cerebral infarction, cerebrovascular accident, deep vein thrombosis, peripheral embolism, pulmonary embolism, thrombophlebitis, thrombosis, and sudden death) (see section 4.4).

**POST-MARKETING SURVEILLANCE**

Frequencies from post-marketing surveillance are not known (cannot be estimated from available data).

<b>MedDRA System Organ Class</b>	<b>Preferred Term</b>
Infections and infestations	<ul style="list-style-type: none"> <li>• Pseudomembranous colitis one of which has been documented bacteriologically (<i>Clostridium difficile</i>)</li> <li>• Sepsis</li> <li>• Fungal infections*</li> <li>• Viral infections†</li> </ul>
Blood and lymphatic system disorders	<ul style="list-style-type: none"> <li>• Thrombocytopenia with antiplatelet antibodies</li> </ul>
Immune system disorders	<ul style="list-style-type: none"> <li>• Hypersensitivity</li> <li>• Anaphylactic reaction</li> </ul>
Metabolism and nutrition disorders	<ul style="list-style-type: none"> <li>• Dehydration (due to diarrhoea and vomiting)</li> <li>• Hypovolaemia</li> </ul>
Nervous system disorders	<ul style="list-style-type: none"> <li>• Speech disorder generally transient in nature, in some cases, the event was attributed to the cholinergic syndrome observed during or shortly after infusion of irinotecan</li> <li>• Paraesthesia</li> <li>• Muscular contractions involuntary</li> </ul>
Cardiac disorders	<ul style="list-style-type: none"> <li>• Hypertension (during or after infusion)</li> <li>• Cardio circulatory failure*</li> </ul>
Vascular disorders	<ul style="list-style-type: none"> <li>• Hypotension*</li> </ul>
Respiratory, thoracic and mediastinal disorders	<ul style="list-style-type: none"> <li>• Interstitial lung disease presenting as lung infiltration is uncommon during irinotecan therapy; early effects such as dyspnoea have been reported (see section 4.4)</li> <li>• Dyspnoea (see section 4.4)</li> <li>• Hiccups</li> </ul>
Gastrointestinal disorders	<ul style="list-style-type: none"> <li>• Intestinal obstruction</li> <li>• Ileus: cases of ileus without preceding colitis have also been reported</li> <li>• Megacolon</li> <li>• Gastrointestinal haemorrhage</li> <li>• Colitis; in some cases, colitis was complicated by ulceration, bleeding, ileus, or infection.</li> <li>• Typhlitis</li> <li>• Colitis ischaemic</li> <li>• Colitis ulcerative</li> <li>• Symptomatic or asymptomatic pancreatic enzymes increased</li> <li>• Intestinal perforation</li> </ul>
Hepatobiliary disorders	<ul style="list-style-type: none"> <li>• Steatohepatitis</li> <li>• Hepatic steatosis</li> </ul>
Skin and subcutaneous tissue disorders	<ul style="list-style-type: none"> <li>• Skin reaction</li> </ul>
Musculoskeletal and connective tissue disorders	<ul style="list-style-type: none"> <li>• Cramps</li> </ul>

Renal and urinary disorders	<ul style="list-style-type: none"> <li>• Renal impairment and acute renal failure generally in patients who become infected and/or volume depleted from severe gastrointestinal toxicities.*</li> <li>• Renal insufficiency*</li> </ul>
General disorders and administration site conditions	<ul style="list-style-type: none"> <li>• Infusion site reaction</li> </ul>
Investigations	<ul style="list-style-type: none"> <li>• Amylase increased</li> <li>• Lipase increased</li> <li>• Hypokalaemia</li> <li>• Hyponatraemia mostly related with diarrhoea and vomiting</li> <li>• Transaminases increased(i.e., AST and ALT) in the absence of progressive liver metastasis have been very rarely reported</li> </ul>

\*e.g. *Pneumocystis jirovecii* pneumonia, bronchopulmonary aspergillosis, systemic candida.

†e.g. Herpes zoster, influenza, hepatitis B reactivation, cytomegalovirus colitis.

\* Infrequent cases of renal insufficiency, hypotension or cardio circulatory failure have been observed in patients who experienced episodes of dehydration associated with diarrhoea and/or vomiting, or sepsis.

#### 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. Any suspected adverse event should be reported to the Ministry of Health according to the National Regulation by using an online form : <https://sideeffects.health.gov.il>

## **4.9. Overdose**

### Symptoms

There have been reports of overdosage at doses up to approximately twice the recommended therapeutic dose, which may be fatal. The most significant adverse reactions reported were severe neutropenia and severe diarrhoea.

### Management

There is no known antidote for CAMPTO®. Maximum supportive care should be instituted to prevent dehydration due to diarrhoea and to treat any infectious complications.

## 5. PHARMACOLOGICAL PROPERTIES

### 5.1. Pharmacodynamic properties

Pharmacotherapeutic group: Cytostatic topoisomerase I inhibitor. ATC Code : L01CE02

#### Mechanism of action

##### **Experimental data:**

Irinotecan is a semi-synthetic derivative of camptothecin. It is an antineoplastic agent which acts as a specific inhibitor of DNA topoisomerase I. It is metabolised by carboxylesterase in most tissues to SN-38, which was found to be more active than irinotecan in purified topoisomerase I and more cytotoxic than irinotecan against several murine and human tumour cell lines. The inhibition of DNA topoisomerase I by irinotecan or SN-38 induces single-strand DNA lesions which blocks the DNA replication fork and are responsible for the cytotoxicity. This cytotoxic activity was found time-dependent and was specific to the S phase.

*In vitro*, irinotecan and SN-38 were not found to be significantly recognised by the P-glycoprotein MDR, and display cytotoxic activities against doxorubicin- and vinblastine-resistant cell lines. Furthermore, irinotecan has a broad antitumor activity *in vivo* against murine tumour models (P03 pancreatic ductal adenocarcinoma, MA16/C mammary adenocarcinoma, C38 and C51 colon adenocarcinomas) and against human xenografts (Co-4 colon adenocarcinoma, Mx-1 mammary adenocarcinoma, ST-15 and SC-16 gastric adenocarcinomas). Irinotecan is also active against tumours expressing the P-glycoprotein MDR (vincristine- and doxorubicin-resistant P388 leukaemias). Beside the antitumor activity of CAMPTO®, the most relevant pharmacological effect of irinotecan is the inhibition of acetylcholinesterase.

##### **Clinical data:**

#### **In combination therapy for the first-line treatment of metastatic colorectal carcinoma**

##### **In combination therapy with folinic acid and 5-fluorouracil**

A phase III study was performed in 385 previously untreated metastatic colorectal cancer patients treated with either every-2-weeks schedule (see section 4.2) or weekly schedule regimens. In the every 2 weeks schedule, on day 1, the administration of CAMPTO® at 180 mg/m<sup>2</sup> once every 2 weeks is followed by infusion with folinic acid (200 mg/m<sup>2</sup> over a 2-hour intravenous infusion) and 5-fluorouracil (400 mg/m<sup>2</sup> as an intravenous bolus, followed by 600 mg/m<sup>2</sup> over a 22-hour intravenous infusion). On day 2, folinic acid and 5-fluorouracil are administered at the same doses and schedules. In the weekly schedule, the administration of CAMPTO® at 80 mg/m<sup>2</sup> is followed by infusion with folinic acid (500 mg/m<sup>2</sup> over a 2-hour intravenous infusion) and then by 5-fluorouracil (2300 mg/m<sup>2</sup> over a 24-hour intravenous infusion) over 6 weeks.

In the combination therapy trial with the 2 regimens described above, the efficacy of CAMPTO® was evaluated in 198 treated patients:

	Combined regimens (n=198)		Weekly schedule (n=50)		Every 2 weeks schedule (n=148)	
	CAMPTO <sup>®</sup> +5FU/FA	5FU/FA	CAMPTO <sup>®</sup> +5FU/FA	5FU/FA	CAMPTO <sup>®</sup> +5FU/FA	5FU/FA
Response rate (%)	40.8 *	23.1 *	51.2 *	28.6 *	37.5 *	21.6 *
p value	p<0.001		p=0.045		p=0.005	
Median time to progression (months)	6.7	4.4	7.2	6.5	6.5	3.7
p value	p<0.001		NS		p=0.001	
Median duration of response (months)	9.3	8.8	8.9	6.7	9.3	9.5
p value	NS		p=0.043		NS	
Median duration of response and stabilisation (months)	8.6	6.2	8.3	6.7	8.5	5.6
p value	p<0.001		NS		p=0.003	
Median time to treatment failure (months)	5.3	3.8	5.4	5.0	5.1	3.0
p value	p=0.0014		NS		p<0.001	
Median survival (months)	16.8	14.0	19.2	14.1	15.6	13.0
p value	p=0.028		NS		p=0.041	

5FU : 5-fluorouracil

FA : folinic acid

NS : Non Significant

\*: As per protocol population analysis

In the weekly schedule, the incidence of severe diarrhoea was 44.4% in patients treated by CAMPTO<sup>®</sup> in combination with 5FU/FA and 25.6% in patients treated by 5FU/FA alone. The incidence of severe neutropenia (neutrophil count < 500 cells/mm<sup>3</sup>) was 5.8% in patients treated by CAMPTO<sup>®</sup> in combination with 5FU/FA and in 2.4% in patients treated by 5FU/FA alone. Additionally, median time to definitive performance status deterioration was significantly longer in CAMPTO<sup>®</sup> combination group than in 5FU/FA alone group (p=0.046).

Quality of life was assessed in this phase III study using the EORTC QLQ-C30 questionnaire. Time to definitive deterioration constantly occurred later in the CAMPTO<sup>®</sup> groups. The evolution of the Global Health Status/Quality of life was slightly better in CAMPTO<sup>®</sup> combination group although not significant, showing that efficacy of CAMPTO<sup>®</sup> in combination could be reached without affecting the quality of life.

### **In monotherapy for the second-line treatment of metastatic colorectal carcinoma:**

Clinical phase II/III studies were performed in more than 980 patients in the every-3-week dosage schedule with metastatic colorectal cancer who failed a previous 5FU regimen. The efficacy of CAMPTO<sup>®</sup> was evaluated in 765 patients with documented progression on 5FU at study entry.

	Phase III					
	CAMPTO <sup>®</sup> versus supportive care			CAMPTO <sup>®</sup> versus 5FU		
	CAMPTO <sup>®</sup> n=183	Supportive care n=90	p values	CAMPTO <sup>®</sup> n=127	5FU n=129	p values
Progression-Free Survival at 6 months (%)	NA	NA		33.5 *	26.7	p=0.03
Survival at 12 months (%)	36.2 *	13.8	p=0.0001	44.8 *	32.4	p=0.0351
Median survival (months)	9.2*	6.5	p=0.0001	10.8*	8.5	p=0.0351

NA = Non Applicable

\* : Statistically significant difference

In phase II studies, performed on 455 patients in the every-3-week dosage schedule, the progression free survival at 6 months was 30 % and the median survival was 9 months. The median time to progression was 18 weeks.

Additionally, non-comparative phase II studies were performed in 304 patients treated with a weekly schedule regimen, at a dose of 125 mg/m<sup>2</sup> administered as an intravenous infusion over 90 minutes for 4 consecutive weeks followed by 2 weeks rest. In these studies, the median time to progression was 17 weeks and median survival was 10 months. A similar safety profile has been observed in the weekly-dosage schedule in 193 patients at the starting dose of 125 mg/m<sup>2</sup>, compared to the every-3-week-dosage schedule. The median time of onset of the first liquid stool was on day 11.

#### Patients with Reduced UGT1A1 Activity:

Uridine diphosphate-glucuronosyl transferase 1A1 (UGT1A1) is involved in the metabolic deactivation of SN-38, the active metabolite of irinotecan to inactive SN-38 glucuronide (SN-38G). The UGT1A1 gene is highly polymorphic, resulting in variable metabolic capacities among individuals. One specific variation of the UGT1A1 gene includes a polymorphism in the promoter region known as the UGT1A1\*28 variant. This variant and other congenital deficiencies in UGT1A1 expression (such as Crigler-Najjar and Gilbert's syndrome) are associated with reduced activity of this enzyme. Data from a meta analysis indicate that individuals with Crigler-Najjar syndrome (types 1 and 2) or those who are homozygous for the UGT1A1\*28 allele (Gilbert's syndrome) are at increased risk of haematological toxicity (Grades 3 and 4) following administration of irinotecan at moderate or high doses (>150 mg/m<sup>2</sup>). A relationship between UGT1A1 genotype and the occurrence of irinotecan induced diarrhoea was not established.

Patients known to be homozygous for UGT1A1\*28 should be administered the normally indicated irinotecan starting dose. However, these patients should be monitored for haematologic toxicities. A reduced irinotecan starting dose should be considered for patients who have experienced prior haematologic toxicity with previous treatment. The exact reduction in starting dose in this patient population has not been established and any subsequent dose modifications should be based on a patient's tolerance of the treatment (see sections 4.2 and 4.4).

There is at present insufficient data to conclude on clinical utility of UGT1A1 genotyping.

## 5.2. Pharmacokinetic properties

### Absorption

At the end of the infusion, at the recommended dose of 350 mg/m<sup>2</sup>, the mean peak plasma concentrations of irinotecan and SN-38 were 7.7 µg/mL and 56 ng/mL, respectively, and the mean area under the curve (AUC) values were 34 µg.h/mL and 451 ng.h/mL, respectively. A large interindividual variability in pharmacokinetic parameters is generally observed for SN-38.

### Distribution

The phase I study in 60 patients with a dosage regimen of a 30-minute intravenous infusion of 100 to 750 mg/m<sup>2</sup> every three weeks, the volume of distribution at steady state (V<sub>ss</sub>): 157 L/m<sup>2</sup>.

In vitro, plasma protein binding for irinotecan and SN-38 was approximately 65% and 95%, respectively.

### Biotransformation

Mass balance and metabolism studies with <sup>14</sup>C-labelled drug have shown that more than 50% of an intravenously administered dose of irinotecan is excreted as unchanged drug, with 33% in the faeces mainly via the bile and 22% in urine.

Two metabolic pathways account each for at least 12% of the dose:

- Hydrolysis by carboxylesterase into active metabolite SN-38, SN-38 is mainly eliminated by glucuronidation, and further by biliary and renal excretion (less than 0.5% of the irinotecan dose) The SN-38 glucuronite is subsequently probably hydrolysed in the intestine.
- Cytochrome P450 3A enzymes-dependent oxidations resulting in opening of the outer piperidine ring with formation of APC (aminopentanoic acid derivate) and NPC (primary amine derivate) (see section 4.5).

Unchanged irinotecan is the major entity in plasma, followed by APC, SN-38 glucuronide and SN-38. Only SN-38 has significant cytotoxic activity.

### Elimination

In a phase I study in 60 patients with a dosage regimen of a 30-minute intravenous infusion of 100 to 750 mg/m<sup>2</sup> every three weeks, irinotecan showed a biphasic or triphasic elimination profile. The mean plasma clearance was 15 L/h/m<sup>2</sup>. The mean plasma half-life of the first phase of the triphasic model was 12 minutes, of the second phase 2.5 hours, and the terminal phase half-life was 14.2 hours. SN-38 showed a biphasic elimination profile with a mean terminal elimination half-life of 13.8 hours.

Irinotecan clearance is decreased by about 40% in patients with bilirubinemia between 1.5 and 3 times the upper normal limit. In these patients a 200 mg/m<sup>2</sup> irinotecan dose leads to plasma drug exposure comparable to that observed at 350 mg/m<sup>2</sup> in cancer patients with normal liver parameters.

### Linearity/non-linearity

A population pharmacokinetic analysis of irinotecan has been performed in 148 patients with metastatic colorectal cancer, treated with various schedules and at different doses in phase II trials. Pharmacokinetic parameters estimated with a three compartment model were similar to those observed in phase I studies. All studies have shown that irinotecan (CPT-11) and SN-38 exposure increase

proportionally with CPT-11 administered dose; their pharmacokinetics are independent of the number of previous cycles and of the administration schedule.

#### Pharmacokinetic/Pharmacodynamic relationship(s)

The intensity of the major toxicities encountered with CAMPTO<sup>®</sup> (e.g. leukoneutropenia and diarrhoea) are related to the exposure (AUC) to parent drug and metabolite SN-38. Significant correlations were observed between haematological toxicity (decrease in white blood cells and neutrophils at nadir) or diarrhoea intensity and both irinotecan and metabolite SN-38 AUC values in monotherapy.

### 5.3. Preclinical safety data

Irinotecan and SN-38 have been shown to be mutagenic *in vitro* in the chromosomal aberration test on CHO-cells as well as in the *in vivo* micronucleus test in mice.

However, they have been shown to be devoid of any mutagenic potential in the Ames test.

In rats treated once a week during 13 weeks at the maximum dose of 150 mg/m<sup>2</sup> (which is less than half the human recommended dose), no treatment-related tumours were reported 91 weeks after the end of treatment.

Single- and repeated-dose toxicity studies with CAMPTO<sup>®</sup> have been carried out in mice, rats and dogs. The main toxic effects were seen in the haematopoietic and lymphatic systems. In dogs, delayed diarrhoea associated with atrophy and focal necrosis of the intestinal mucosa was reported. Alopecia was also observed in the dog.

The severity of these effects was dose-related and reversible.

#### Reproduction

Irinotecan was teratogenic in rats and rabbits at doses below the human therapeutic dose. In rats, pups born to treated animals with external abnormalities showed a decrease in fertility. This was not seen in morphologically normal pups. In pregnant rats there was a decrease in placental weight and in the offspring, a decrease in fetal viability and increase in behavioural abnormalities.

## 6. PHARMACEUTICAL PARTICULARS

### 6.1. List of excipients

D-Sorbitol,  
lactic acid,  
sodium hydroxide (to adjust to pH 3.5),  
hydrochloride acid (to adjust to pH 3.5) ,  
water for injections.

### 6.2. Incompatibilities

None known.

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

### **6.3. Shelf life**

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

CAMPTO® solution is physically and chemically stable with infusion solutions (0.9% (w/v) sodium chloride solution and 5% (w/v) glucose solution) for up to 28 days when stored in LDPE or PVC containers at 5°C or at 30°C and protected from light. When exposed to light, physico-chemical stability has been demonstrated for up to 3 days.

It is recommended, however, that in order to reduce microbiological hazard, the infusion solutions should be prepared immediately prior to use and infusion commenced as soon as practicable after preparation. If not used immediately, in-use storage times and conditions prior to use are the responsibility of the user and should not be longer than 24 hours at 2°C to 8°C, unless dilution has taken place in controlled and validated aseptic conditions.

### **6.4. Special precautions for storage**

For storage conditions after dilution of the medicinal product, see section 6.3.

- Store below 30°C.
- Store in the original package in order to protect from light.

### **6.5. Nature and contents of container**

Single amber-coloured medical-grade polypropylene vial closed with halobutyl rubber stopper. Vials contain 40 mg/ 2mL; 100 mg/5 mL or 300 mg/15 mL of solution.

Not all pack sizes may be marketed.

### **6.6. Special precautions for disposal and other handling**

As with other antineoplastic agents, CAMPTO® must be prepared and handled with caution. The use of glasses, mask and gloves is required.

If CAMPTO® solution or infusion solution should come into contact with the skin, wash immediately and thoroughly with soap and water. If CAMPTO® solution or infusion solution should come into contact with the mucous membranes, wash immediately with water.

#### **Preparation for the intravenous infusion administration:**

As with any other injectable medicinal product, the CAMPTO® solution must be prepared aseptically (see section 6.3).

If any precipitate is observed in the vials or after dilution, the product should be discarded according to standard procedures for cytotoxic agents.

Aseptically withdraw the required amount of CAMPTO® solution from the vial with a calibrated syringe and inject into a 250 ml infusion bag or bottle containing either 0.9% sodium chloride solution or 5% glucose solution. The infusion should then be thoroughly mixed by manual rotation.

**Disposal:**

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

All materials used for dilution and administration should be disposed of according to hospital standard procedures applicable to cytotoxic agents.

**7. LICENSE HOLDER**

Pfizer PFE Pharmaceuticals Israel Ltd., 9 Shenkar St., Herzliya Pituach, Israel 46725

**8. LICENSE NUMBER**

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