

## **SUMMARY OF PRODUCT CHARACTERISTICS**

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

CitraFleet, Powder for oral solution in sachet

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

Each sachet (15.08 g) contains the following active ingredients:

Sodium picosulfate	10.0 mg
Light magnesium oxide	3.5 g
Citric acid anhydrous	10.97 g

Excipient with known effect: each sachet also contains 5 mmol (or 195 mg) potassium (see section 4.4) and sodium.

For the full list of excipients, see section 6.1.

### **3 PHARMACEUTICAL FORM**

Powder for oral solution, in sachet.

White crystalline powder with a lemon flavour.

### **4 CLINICAL PARTICULARS**

#### **4.1 Therapeutic indications**

For bowel cleansing prior to any diagnostic procedures requiring a clean bowel e.g. colonoscopy or x-ray examination.

CitraFleet is indicated in adults (including the elderly) aged 18 years and over.

#### **4.2 Posology and method of administration**

##### Posology

*Adults (including the elderly) aged 18 years and over*

The treatment can be administered in one of the following ways:

- Usually, one sachet on the evening prior to the procedure and the second sachet in the morning of the day of the procedure.
- Alternatively, both sachets on the afternoon and evening prior to the procedure. This schedule is more suitable when the procedure is early in the morning.

The time elapsed between the two sachets should be at least 5 hours.

##### Method of administration

*Route of administration: Oral use.*

A low residue diet or only clear liquids on the day before the procedure is recommended. No solid food should be taken from the start of the course of treatment until after the procedure.

Because the osmolarity of the product needs to be maintained in order to obtain the desired effect, each sachet should be reconstituted in a cup of water. Do not further dilute the product by drinking liquid immediately after the intake of each sachet.

After a period of ten minutes following the administration of each reconstituted sachet, it is recommended to drink approximately 1.5-2 litres of a variety of clear fluids at a rate of approximately 250-400 ml/h. Clear soups and/or balanced electrolyte solutions would be recommended. It is advisable not to drink clear or demineralised water alone.

The patient should be nil-by-mouth prior to the procedure (usually for at least 2 hours) in accordance with anaesthesia requirements.

### **4.3 Contraindications**

Hypersensitivity to the active substances or to any of the excipients listed in section 6.1, congestive cardiac failure, severe dehydration, hypermagnesaemia, gastric retention, gastrointestinal ulceration, toxic colitis, toxic megacolon, ileus, nausea and vomiting, ascites, acute surgical abdominal conditions such as acute appendicitis and known or suspected gastrointestinal obstruction or perforation.

Do not use in patients with rhabdomyolysis as laxatives may induce rhabdomyolysis and may therefore exacerbate the condition.

Do not use in patients with active inflammatory bowel disease e.g. Crohn's disease, ulcerative colitis.

In patients with severely reduced renal function, accumulation of magnesium in plasma may occur. Another preparation should be used in such cases.

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

CitraFleet should not be used as a routine laxative.

CitraFleet could rarely lead to severe and potentially fatal cases of electrolyte disorders or impaired renal function in frail or debilitated patients. Therefore, the benefit/risk ratio of CitraFleet needs to be carefully considered before initiating treatment in this at-risk population.

Special attention should be taken when prescribing CitraFleet to any patient with regard to known contra-indications and special attention made to the importance of adequate hydration and, in at-risk populations (as defined below), to the importance of also obtaining baseline and post-treatment electrolyte levels.

Elderly and debilitated patients, and patients at risk of hypokalaemia or hyponatraemia, may need particular attention.

CitraFleet should be used with caution in patients with known disorders of water and/or electrolyte balance or on drugs that might affect water and/or electrolyte balance e.g. diuretics, corticosteroids, lithium (see 4.5).

Care should also be taken in patients who have recently undergone gastrointestinal surgery or who have renal impairment, mild to moderate dehydration, hypotension or heart disease.

The period of bowel cleansing should not exceed 24 hours because longer preparation may increase the risk of water and electrolyte imbalance.

Due to the evacuating effect of CitraFleet, diarrhoea may occur with the result of fluid and electrolyte losses, hypovolemia and hypotension. Additionally, vasovagal reflex may be the consequence of abdominal stimuli, like pain, which in turn, might trigger loss of consciousness or faint in the patient. That is why an adequate intake of clear liquids is required, as indicated in section 4.2.

CitraFleet may modify the absorption of regularly prescribed oral medication and should be used with caution e.g. there have been isolated reports of seizures in patients on antiepileptics, with previously controlled epilepsy (see 4.5 and 4.8).

This medicine contains 5 mmol (or 195 mg) potassium per sachet. This should be taken into consideration by patients with reduced kidney function or patients on a controlled potassium diet.

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

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

As a purgative, CitraFleet increases the gastrointestinal transit rate. Absorption of other orally administered medicines (e.g. anti-epileptics, contraceptives, anti-diabetics, antibiotics) may therefore be modified during the treatment period (see 4.4). Tetracycline and fluoroquinolone antibiotics, and pencillamine, should be taken at least 2 hours before and not less than 6 hours after administration of CitraFleet to avoid chelation with magnesium.

The efficacy of CitraFleet is lowered by bulk-forming laxatives.

Care should be taken with patients already receiving drugs which may be associated with hypokalaemia (such as diuretics or corticosteroids, or drugs where hypokalaemia is a particular risk i.e. cardiac glycosides). Caution is also advised when CitraFleet is used in patients on NSAIDs or drugs known to induce SIADH e.g. tricyclic antidepressants, selective serotonin re-uptake inhibitors, antipsychotic drugs and carbamazepine as these drugs may increase the risk of water retention and/or electrolyte imbalance.

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

##### Pregnancy

For CitraFleet neither clinical data on exposed pregnancy nor reproductive toxicity are available. As picosulfate is a stimulant laxative, for safety measure, it is preferable to avoid the use of CitraFleet during pregnancy.

##### Breast-feeding

There is no experience with the use of CitraFleet in nursing mothers. However, due to the pharmacokinetic properties of the active ingredients, treatment with CitraFleet may be considered for females who are breastfeeding.

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

CitraFleet may cause fatigue or dizziness, probably as a result of dehydration, and this may have a mild to moderate effect on the ability to drive or use machinery.

#### **4.8 Undesirable effects**

The most common adverse events reported in clinical trials using the combination of sodium picosulfate and magnesium citrate were related to direct effects on the bowel (abdominal pain and nausea) and the consequences of diarrhoea and dehydration (sleep disturbance, dry mouth, thirst, headache and fatigue).

Undesirable effects are presented below by MedDRA System Organ Class and Preferred Term, using the following frequency convention: very common ( $\geq 1/10$ ); common ( $\geq 1/100$  to  $< 1/10$ ); uncommon ( $\geq 1/1,000$  to  $< 1/100$ ). The frequency calculations are based on data derived from an analysis of clinical studies. Undesirable effects that were not reported in these clinical trials are described as 'Frequency not known (cannot be estimated from the available data)'.

#### *Immune system disorders*

Not known: Anaphylactoid reaction, hypersensitivity

#### *Metabolism and nutrition disorders*

Not known: Hyponatraemia

Not known: Hypokalaemia.

#### *Psychiatric disorders*

Common: Sleep disorder

#### *Nervous system disorders*

Common: Headache

Uncommon: Dizziness

Not known: Epilepsy, grand mal convulsion, convulsion, confusional state

#### *Vascular disorders*

Uncommon: Orthostatic hypotension

#### *Gastrointestinal disorders*

Very common: Abdominal pain

Common: Dry mouth, nausea, abdominal distension, anal discomfort, proctalgia

Uncommon: Vomiting, faecal incontinence

Not known: Diarrhoea\*, flatulence

\* Diarrhoea is the primary clinical effect of CitraFleet

#### *Skin and subcutaneous tissue disorders*

Not known: Rash (including erythematous and maculo-papular rash), urticaria, pruritus, purpura

#### *General disorders and administration site conditions*

Common: Thirst, fatigue

Not known: Pain

Hyponatraemia has been reported with or without associated convulsions (see 4.4). In epileptic patients, there have been reports of seizure/grand mal convulsion without associated hyponatraemia (see 4.4 and 4.5).

#### 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 events should be reported to the Ministry of Health according to the National Regulation by using an online form

<http://sideeffects.health.gov.il>

## **4.9 Overdose**

No cases of overdose with CitraFleet, or similar combinations of sodium picosulfate and magnesium citrate, have been reported. However, because of its modes of action, an overdose of CitraFleet would be expected to cause profuse diarrhoea with dehydration and electrolyte loss. Dehydration could also lead to orthostatic hypotension and dizziness. Dehydration and electrolyte imbalances should be corrected with fluid and electrolytes as necessary.

## **5 PHARMACOLOGICAL PROPERTIES**

### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Sodium picosulfate, combinations, ATC code: A06A B58.

The active components of CitraFleet are sodium picosulfate, a stimulant cathartic, active locally in the colon, and magnesium citrate which acts as an osmotic laxative by retaining moisture in the colon. The action is of a potent 'washing out' effect combined with peristaltic stimulation to clear the bowel prior to radiography, colonoscopy or surgery. The product is not intended for use as a routine laxative.

In a randomized, multicentre, rater-blinded study in adults, bowel cleansing prior to colonoscopy using two different regimens of CitraFleet was compared with that following Klean-Prep (each sachet containing 59 g polyethylene glycol 3350, 5.685 g anhydrous sodium sulfate, 1.685 g sodium bicarbonate, 1.465 g sodium chloride and 0.7425 g potassium chloride; to be dissolved in 1 litre of water) The treatment groups were: late prior-day CitraFleet (2 sachets, 5 hours apart during the afternoon and evening the day before colonoscopy, n=229); late prior-day Klean-Prep (4 sachets administered during the afternoon and evening the day before colonoscopy, n=227); same-morning CitraFleet (2 sachets, 3 hours apart on the morning before colonoscopy, n=56). Bowel cleansing was assessed using a categorical scale (excellent, good, fair and poor). Good/excellent cleansing was reported in 68.1% of patients on the late prior-day CitraFleet regimen (not statistically different from Klean-Prep), while a significantly higher proportion of patients had good/excellent cleansing with same-morning CitraFleet compared with either late prior-day regimen ( $p<0.05$ ). Both CitraFleet regimens were rated as significantly easier to complete by patients than Klean-Prep ( $p<0.001$ ). All regimens were well tolerated, with only 2.2% of patients on the late prior-day CitraFleet regimen having adverse drug reactions. There were no serious adverse drug reactions.

In a randomized, multicentre, rater-blinded study in adults, bowel cleansing prior to colonoscopy was compared using two different regimens of CitraFleet: split-dose (1 sachet in the evening the day before colonoscopy, and another sachet on the morning before colonoscopy, n=159); early prior-day regimen (1 sachet before 0800h the day before colonoscopy and another sachet 6-8 hours later, n=156). Bowel cleansing was assessed using a categorical scale (excellent, good, fair and poor). A significantly higher proportion of patients on the split-dose regimen had good/excellent cleansing (79.9% vs 30.8% for early prior-day,  $p<0.0001$ ). Over 93% of patients in both groups rated the regimens as 'easy' or 'very easy' to take. Both regimens were well tolerated, with 1.9% and 2.5% of patients having adverse drug reactions in the split-dose and early prior-day groups, respectively. More patients in the split-dose group than in the early prior-day group reported nausea (23.3% vs 13.5%) and overall physical discomfort (29.6% vs 17.3%), while more patients in the early prior-day group reported hunger (46.2% vs 32.1% with split-dose). There were no serious adverse drug reactions. Overall, changes in electrolyte levels and other laboratory parameters were minor in both groups.

## **5.2 Pharmacokinetic properties**

Both active components are locally active in the colon, and neither is absorbed in any detectable amounts.

In patients with severely reduced renal function, accumulation of magnesium in plasma may occur.

## **5.3 Preclinical safety data**

Prenatal developmental studies in rats and rabbits did not reveal any teratogenic potential after oral dosing of sodium picosulfate up to 100 mg/kg/d, but embryotoxicity had been observed in both species at this dose level. In rats daily doses of 10mg/kg during late gestation (fetal

development) and lactation reduced body weights and survival of the offspring. Male and female fertility was not affected by oral doses of sodium picosulfate up to 100 mg/kg.

## **6 PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Potassium hydrogen carbonate  
Saccharin sodium  
Lemon Flavour (051421 AP0551).

### **6.2 Incompatibilities**

Not applicable

### **6.3 Shelf life**

Unopened sachets: The expiry date of the products is indicated on the packaging materials.

Use immediately after reconstitution.

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

Store below 25°C.

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

The powder for oral solution is supplied in unit dose sachets. Sachets are packaged in cartons of 2 sachets. The sachets contain white powder crystals with single dose of 15.08g. The sachet is a complex formed by a polyester layer, an intermediate aluminium layer and an internal polyethylene layer.

### **6.6 Special precautions for disposal**

*Directions for reconstitution:*

Reconstitute the contents of one sachet in a cup of water (approximately 150 ml). The resulting solution appears turbid. Stir for 2-3 minutes and drink the solution. If it becomes hot, wait until it cools sufficiently to drink.

## **7 MANUFACTURER**

Casen Recordati S.L.  
Autovía de Logroño Km 13,300  
50180 Utebo - Zaragoza  
Spain

## **8. MARKETING AUTHORISATION HOLDER**

Tradis Gat Ltd.  
32 Shacham St.  
Petach Tikva

**9. MARKETING AUTHORISATION NUMBER**

151-44-33901

Resvied in January 2022 according to MOHs guidelines