

## **SUMMARY OF PRODUCT CHARACTERISTICS**

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

CALPOL Infant Original 120mg/5ml Oral Suspension

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

CALPOL Infant Original 120mg/5ml Oral Suspension contains 120mg Paracetamol in each 5ml.

Excipients: sucrose (contains 2.2 g of sucrose per 5 ml), sorbitol liquid ((E420) contains 0.45 g sorbitol liquid per 5ml), sodium (contains 0.86mg per 5ml), propylene glycol (E1520), methyl parahydroxybenzoate (E218), ethyl parahydroxybenzoate (E214), propyl parahydroxybenzoate (E216) and carmoisine (E122). See section 4.4 for further information.

For the full list of excipients, see section 6.1.

### **3 PHARMACEUTICAL FORM**

Oral Suspension.

A pink strawberry flavoured suspension.

### **4 CLINICAL PARTICULARS**

#### **4.1 Therapeutic indications**

CALPOL Infant Original 120mg/5ml Oral Suspension is indicated for the treatment of mild to moderate pain and as an antipyretic. It can be used in many conditions including headache, toothache, earache, teething, sore throat, colds & influenza, aches and pains and post-immunisation fever.

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

**For the relief of fever after vaccinations at 2, 3 and 4 months**

2.5ml. This dose may be given up to 4 times a day starting at the time of vaccination. Do not give more than 4 doses in any 24 hour period. Leave at least 4 hours between doses. If your baby still needs this medicine two days after receiving the vaccine talk to your doctor or pharmacist.

<b>Age : 2 – 3 months</b>	<b>Dose</b>
<b>Pain and other causes of fever -</b> if your baby weighs over 4 kg and was born after 37 weeks	2.5 ml If necessary, after 4-6 hours, give a second 2.5 ml dose
<ul style="list-style-type: none"> <li>• Do not give to babies less than 2 months of age.</li> <li>• Leave at least 4 hours between doses.</li> <li>• Do not give more than 2 doses. This is to ensure that fever that may be due to a serious infection is quickly diagnosed. If your child is still feverish after two doses, talk to your doctor or pharmacist.</li> </ul>	

**Children aged 3 months – 6 years:**

<b>Child's Age</b>	<b>How Much</b>	<b>How often (in 24 hours)</b>
3 – 6 months	2.5 ml	4 times
6 – 24 months	5 ml	4 times
2 – 4 years	7.5 ml (5ml + 2.5 ml)	4 times
4 – 6 years	10 ml (5ml + 5 ml)	4 times
<ul style="list-style-type: none"> <li>• Do not give more than 4 doses in any 24 hour period</li> <li>• Leave at least 4 hours between doses</li> <li>• Do not give this medicine to your child for more than 3 days without speaking to your doctor or pharmacist</li> </ul>		

It is important to **shake the bottle** for at least 10 seconds before use.

**The Elderly:**

In the elderly, the rate and extent of paracetamol absorption is normal but plasma half-life is longer and paracetamol clearance is lower than in young adults.

### **4.3 Contraindications**

Hypersensitivity to paracetamol or to any of the excipients listed in section 6.1.

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

Do not exceed the recommended dose. Taking more than the recommended dose (overdose) may cause liver damage. In case of overdose, get medical help straight away. Quick medical attention is critical for adults as well as children even if signs and symptoms are not noticed.

Taking this product with other paracetamol-containing medicines could lead to overdose and should therefore be avoided.

Care is advised in the administration of paracetamol to patients with severe renal or severe hepatic impairment. The hazards of overdose are greater in those with non-cirrhotic alcoholic liver disease. Chronic alcohol users should consult a doctor before use.

Cases of high anion gap metabolic acidosis (HAGMA) due to pyroglutamic acidosis have been reported in patients with severe illness such as severe renal impairment and sepsis, or in patients with malnutrition or other sources of glutathione deficiency (e.g. chronic alcoholism), who were treated with paracetamol at therapeutic dose for a prolonged period or a combination of paracetamol and flucloxacillin. If HAGMA due to pyroglutamic acidosis is suspected, prompt discontinuation of paracetamol and close monitoring, is recommended. The measurement of urinary 5-oxoproline may be useful to identify pyroglutamic acidosis as underlying cause of HAGMA in patients with multiple risk factors.

Sorbitol may cause gastrointestinal discomfort and have a mild laxative effect. Each 5 ml of this product contains 0.45 g sorbitol liquid. It has a calorific value of 2.6 kcal/g sorbitol.

Due to the presence of sucrose and sorbitol liquid (E420), patients with rare hereditary problems of fructose intolerance, glucose-galactose malabsorption or sucrase-isomaltase insufficiency should not take this medicine.

Ethyl (E214), Propyl (E216) and Methyl (E218) parahydroxybenzoate may cause allergic reactions (possibly delayed).

Carmoisine (E122) may cause allergic reactions.

This medicine contains less than 1 mmol sodium (23 mg) per 5 ml, that is to say essentially 'sodium-free'.

This medicine contains 13.63 mg propylene glycol (E1520) in each 5 ml dose, which is equivalent to 2.73 mg/ml. Caution in babies less than 4 weeks old. Co-administration with any substrate for alcohol dehydrogenase such as ethanol may induce serious adverse effects in neonates.

Patients should be informed about the signs of serious skin reactions and use of the drug should be discontinued at the first appearance of skin rash or any other sign of hypersensitivity.

The label contains the following statements:

Contains paracetamol.

Do not give anything else containing paracetamol while giving this medicine.

Do not give more medicine than the label tells you to. If your child does not get better, talk to your doctor.

For oral use only.

Always use the syringe supplied with the pack.

Do not give to babies less than 2 months of age.

For infants 2-3 months no more than 2 doses should be given.

Do not give more than 4 doses in any 24 hour period.

Leave at least 4 hours between doses.

Do not give this medicine to your child for more than 3 days without speaking to your doctor or pharmacist.

As with all medicines, if your child is currently taking any other medicine consult your doctor or pharmacist before using this product.

Keep out of the sight and reach of children.

Do not store above 25°C. Keep bottle in the outer carton.

It is important to shake the bottle for at least 10 seconds before use.

Talk to a doctor at once if your child takes too much of this medicine, even if they seem well.

The leaflet contains the following statements:

Talk to a doctor at once if your child takes too much of this medicine, even if they seem well. This is because too much paracetamol can cause delayed, serious liver damage.

Very rare cases of serious skin reactions have been reported. Symptoms may include:

- Skin reddening
- Blisters
- Rash

If skin reactions occur or existing skin symptoms worsen, stop use and seek medical help right away.

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

##### **Drugs which induce hepatic microsomal enzymes**

Metabolism of paracetamol possibly accelerated by carbamazepine, fosphenytoin, phenytoin, phenobarbital, primidone (also isolated reports of hepatotoxicity).

The speed of absorption of paracetamol may be increased by metoclopramide or domperidone and absorption reduced by cholestyramine.

The anticoagulant effect of warfarin and other coumarins may be enhanced by prolonged regular use of paracetamol with increased risk of bleeding; occasional doses have no significant effect.

Caution should be taken when paracetamol is used concomitantly with flucloxacillin as concurrent intake has been associated with high anion gap metabolic acidosis due to pyroglutamic acidosis, especially in patients with risks factors (see section 4.4).

Chronic alcohol intake can increase the hepatotoxicity of paracetamol overdose and may have contributed to the acute pancreatitis reported in one patient who had taken an overdose of paracetamol. Acute alcohol intake may diminish an individual's ability to metabolise large doses of paracetamol, the plasma half-life of which can be prolonged.

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

##### **Pregnancy**

A large amount of data on pregnant women indicate neither malformative, nor fetoneonatal toxicity. Epidemiological studies on neurodevelopment in children exposed to paracetamol in utero show inconclusive results. If clinically needed, paracetamol can be used during pregnancy however it should be used at the lowest effective dose for the shortest possible time and at the lowest possible frequency.

When given to the mother in therapeutic doses (1 g single dose), paracetamol crosses the placenta into foetal circulation as early as 30 minutes after ingestion and is metabolised in the foetus by conjugation with sulfate and increasingly with glutathione.

##### **Breast-feeding**

Paracetamol is excreted in breast milk but not in a clinically significant amount. Available published data do not contraindicate breast-feeding.

##### **Fertility**

There is no information relating to the effects of this medicine on fertility.

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

None known.

#### **4.8 Undesirable effects**

Adverse drug reactions (ADRs) identified during clinical trials and post-marketing experience with paracetamol are listed below by System Organ Class (SOC).

The frequencies are defined according to the following convention:

Very common	≥1/10
Common	≥1/100 to <1/10
Uncommon	≥1/1,000 to <1/100)
Rare	≥1/10,000 to <1/1,000
Very rare	<1/10,000
Not known	(cannot be estimated from available data).

ADRs are presented by frequency category based on 1) incidence in adequately designed clinical trials or epidemiology studies, if available or 2) when incidence is unavailable, frequency category is listed as Not known.

<b>System Organ Class (SOC)</b>	<b>Frequency</b>	<b>Adverse Drug Reaction (Preferred Term)</b>
Blood and lymphatic system disorders	Not known	Blood disorder (including thrombocytopenia and agranulocytosis) <sup>1</sup>
Immune System Disorders	Very rare Very rare	Anaphylactic reaction Hypersensitivity
Hepatobiliary disorders	Not known	Liver injury <sup>2</sup>
Skin and Subcutaneous Tissue disorders	Very rare Not known Not known Not known	Rash Fixed eruption Rash pruritic Urticaria
Renal and urinary disorders	Uncommon  Not known	Nephropathy toxic Renal papillary necrosis <sup>3</sup>
Investigations	Not known	Transaminases increased <sup>4</sup>
Metabolism and nutrition disorders	Not known	High anion gap metabolic acidosis

<sup>1</sup> Reported following paracetamol use, but not necessarily causally related to the drug

<sup>2</sup> Chronic hepatic necrosis has been reported in a patient who took daily therapeutic doses of paracetamol for about a year

<sup>3</sup> Reported after prolonged administration

<sup>4</sup> Low level transaminase elevations may occur in some patients taking therapeutic doses of paracetamol; these elevations are not accompanied with liver failure and usually resolve with continued therapy or discontinuation of paracetamol.

Very rare cases of serious skin reactions have been reported.

Chronic hepatic necrosis has been reported in a patient who took daily therapeutic doses of paracetamol for about a year and liver damage has been reported after daily ingestion of excessive amounts for shorter periods. A review of a group of patients with chronic active hepatitis failed to reveal

differences in the abnormalities of liver function in those who were long-term users of paracetamol nor was the control of the disease improved after paracetamol withdrawal.

High anion gap metabolic acidosis.

Cases of high anion gap metabolic acidosis due to pyroglutamic acidosis have been observed in patients with risk factors using paracetamol (see section 4.4). Pyroglutamic acidosis may occur as a consequence of low glutathione levels in these patients.

### **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 Yellow Card Scheme at: [www.mhra.gov.uk/yellowcard](http://www.mhra.gov.uk/yellowcard) or search for MHRA Yellow Card in the Google Play or Apple App Store.

## **4.9 Overdose**

Liver damage is possible in adults and adolescents ( $\geq 12$  years of age) who have taken 7.5g or more of paracetamol. It is considered that excess quantities of a toxic metabolite (usually adequately detoxified by glutathione when normal doses of paracetamol are ingested) become irreversibly bound to liver tissue. Ingestion of 5g or more of paracetamol may lead to liver damage if the patient has risk factors (see below).

Risk Factors:

If the patient

a) Is on long term treatment with carbamazepine, phenobarbital, phenytoin, primidone, rifampicin, St John's Wort or other drugs that induce liver enzymes.

Or

b) Regularly consumes ethanol in excess of recommended amounts

Or

c) Is likely to be glutathione deplete e.g. eating disorders, cystic fibrosis, HIV infection, starvation, cachexia.

Symptoms

Symptoms of paracetamol overdosage in the first 24 hours are pallor, nausea, hyperhidrosis, malaise, vomiting, anorexia and abdominal pain. Liver damage may become apparent 12 to 48 hours after ingestion. This may include hepatomegaly, liver tenderness, jaundice, acute hepatic failure and hepatic necrosis,

Abnormalities of glucose metabolism and metabolic acidosis may occur. Blood bilirubin, hepatic enzymes, INR, prothrombin time, blood phosphate and blood lactate may be increased.

In severe poisoning, hepatic failure may progress to encephalopathy, haemorrhage, hypoglycaemia, cerebral oedema and death. Acute renal failure with acute tubular necrosis, strongly suggested by loin pain, haematuria and proteinuria, may develop even in the absence of severe liver damage. Cardiac arrhythmias and pancreatitis have been reported.

Haemolytic anaemia (in patients with glucose-6-phosphate dehydrogenase [G6PD] deficiency): Haemolysis has been reported in patients with G6PD deficiency, with use of paracetamol in overdose.

#### Management

Immediate treatment is essential in the management of paracetamol overdose. Despite a lack of significant early symptoms, patients should be referred to hospital urgently for immediate medical attention. Symptoms may be limited to nausea or vomiting and may not reflect the severity of overdose or the risk of organ damage. Management should be in accordance with established treatment guidelines, see BNF overdose section.

Treatment with activated charcoal should be considered if the overdose has been taken within 1 hour. Plasma paracetamol concentration should be measured at 4 hours or later after ingestion (earlier concentrations are unreliable). Treatment with N-acetylcysteine may be used up to 24 hours after ingestion of paracetamol, however the maximum protective effect is obtained up to 8 hours post-ingestion. The effectiveness of the antidote declines sharply after this time. If required the patient should be given intravenous N-acetylcysteine, in line with the established dosage schedule. If vomiting is not a problem, oral methionine may be a suitable alternative for remote areas, outside hospital. Management of patients who present with serious hepatic dysfunction beyond 24h from ingestion should be discussed with the NPIS or a liver unit.

## **5 PHARMACOLOGICAL PROPERTIES**

### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Other Analgesics and Antipyretics (Anilides)  
ATC Code: N02 BE01

Paracetamol has analgesic and antipyretic effects that do not differ significantly from those of aspirin. However it has only weak anti-inflammatory effects. It is only a weak inhibitor of prostaglandin biosynthesis although there is some evidence to suggest it may be more effective against enzymes in the central nervous system than in the periphery. This may in part account for its activity profile.

### **5.2 Pharmacokinetic properties**

#### Absorption

Paracetamol is rapidly and almost completely absorbed from the gastrointestinal tract with peak plasma concentrations occurring 0.5-2 hours after dosing. The plasma half-life is approximately 2 hours after therapeutic doses in adults but is increased in neonates to about 5 hours.

#### Distribution

It is widely distributed through the body.

#### Biotransformation

Metabolism is principally by the hepatic microsomal enzymes and urinary excretion accounts for over 90% of the dose within 1 day. Virtually no paracetamol is excreted unchanged, the bulk being conjugated with glucuronic acid (60%), sulphuric acid (35%) or cysteine (3%).

Children have less capacity for glucuronidation of the drug than adults.

#### Elimination

Following therapeutic doses 90-100% of the drug is recovered in the urine within 24 hours.

### **5.3 Preclinical safety data**

Preclinical data reveal no special hazard for humans based on conventional studies of single and repeated dose toxicity, genotoxicity, and carcinogenicity.

Conventional studies using the currently accepted standards for the evaluation of toxicity to reproduction and development are not available.

## **6 PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Sucrose  
Sorbitol Liquid (Non Crystallising) (E420)  
Glycerol  
Xanthan Gum  
Microcrystalline cellulose and carmellose sodium  
Polysorbate 80  
Acesulfame Potassium  
Propyl Parahydroxybenzoate (E216)  
Ethyl Parahydroxybenzoate (E214)  
Strawberry Flavour 500018E (containing propylene glycol (E1520))  
Methyl parahydroxybenzoate (E218)  
Carmoisine (E122)  
Purified Water

### **6.2 Incompatibilities**

None known

### **6.3 Shelf life**

3 years

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

Do not store above 25°C. Keep bottle in the outer carton.

## **6.5 Nature and Contents of Container**

Amber glass bottle with a two-piece white plastic child-resistant external cap, fitted with an inner plastic cap, including a tamper evident ring fitted with a polyethylene or polyvinylidene chloride (PVDC) laminate faced wad.

Or

Amber glass bottle with a two-piece white plastic child-resistant external cap (in polypropylene), fitted with an inner plastic cap, including a tamper evident ring, in high density polyethylene (HDPE). The cap contains a plug made of Low Density Polyethylene (LDPE).

Or

Amber glass bottle with a two-piece white plastic child-resistant external cap (in polypropylene), fitted with an inner plastic cap, including a tamper evident ring, in high density polyethylene (HDPE). A HDPE disk platine and a Press-In-Bottle Adapter (PIBA, commonly named plug), made of Low-Density Polyethylene (LDPE).

Pack sizes 140 and 200 ml. A syringe with a 5 ml and 2.5 ml measure is supplied with this pack. Not all pack sizes may be marketed.

## **6.6 Special precautions for disposal <and other handling>**

No special requirements for disposal.

## **7 MARKETING AUTHORISATION HOLDER**

McNeil Products Limited  
50 – 100 Holmers Farm Way  
High Wycombe  
Buckinghamshire  
HP12 4EG  
UK

## **8 MARKETING AUTHORISATION NUMBER(S)**

PL 15513/0004

**9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE  
AUTHORISATION**

28/04/1997 / 31/03/2003

**10 DATE OF REVISION OF THE TEXT**

20/03/2025