

**Product Name: ARCHIPROFEN SUSPENSION**

Module 1 Administrative Information

### **1.3.1 Summary of Product Characteristics (SmPC)**

#### **1. Name of the Medicinal Product**

**ARCHIPROFEN SUSPENSION** (Ibuprofen 100mg/5ml)

#### **2. Qualitative and Quantitative Composition**

Each Suspension contains

Ibuprofen BP 100 mg / 5ml

Excipients q.s.

#### **3. Pharmaceutical Form**

Oral Suspension

A light Orange colour suspension with characteristic smell in an amber PET bottle

#### **4. Clinical particulars**

##### **4.1 Therapeutic indications**

Prescription and OTC: Ibuprofen 100 mg / 5 ml Oral Suspension is used as an analgesic for relief of mild to moderate muscular pain, post-immunisation pyrexia, symptomatic relief of headache, earache, dental pain and backache. It can also be used in minor injuries such as sprains and strains. Ibuprofen 100 mg / 5 ml Oral Suspension is effective in the relief of feverishness and symptoms of colds and influenza.

Prescription Only: Ibuprofen 100 mg / 5 ml Oral Suspension is indicated for its analgesic and anti-inflammatory effects in the treatment of dysmenorrhoea, neuralgia, post-operative pain, rheumatoid arthritis (including juvenile rheumatoid arthritis or Still's disease), ankylosing spondylitis, osteoarthritis and other non-rheumatoid (seronegative) arthropathies.

In the treatment of non-articular rheumatic conditions, Ibuprofen 100 mg / 5 ml Oral Suspension is indicated for periarticular conditions such as frozen shoulder (capsulitis), bursitis, tendonitis, tenosynovitis and low back pain. Ibuprofen 100 mg / 5 ml Oral Suspension can also be used in soft tissue injuries such as sprains and strains.

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**4.2 Posology and method of administration**

For oral administration and short-term use only.

*Adults, the elderly and children over 12 years:*

Undesirable effects may be minimised by using the lowest effective dose for the shortest duration necessary to control symptoms. The patient should consult a doctor if symptoms persist or worsen, or if the product is required for more than 10 days.

**Adults, the elderly and children over 12 years:**

The recommended dose is 200 mg-400 mg (10-20 ml), up to three times a day as required. Leave at least four hours between doses and do not take more than 1200 mg (60 ml) in any 24 hour period.

**Children:**

For pain and fever – 20 mg/kg/day in divided doses (including OTC use).

Infants 3-6 months

weighing more than 5 kg:	One 2.5 ml dose may be taken 3 times in 24 hours. Do not use for more than 24 hours
Infants 6 months-1 year:	2.5 ml three to four times a day.
Children 1-4 years:	5 ml three times a day.
Children 4-7 years:	7.5 ml three times a day.
Children 7-12 years:	10 ml three times a day.

Post-immunisation fever: 2.5 ml (50 mg) followed by one further dose of 2.5 ml (50 mg) six hours later if necessary. No more than 2 doses in 24 hours. If fever is not reduced, consult a doctor.

For Juvenile Rheumatoid Arthritis (prescription only use): Doses up to 30-40mg/kg/day may be taken in three or four divided doses.

Elderly:

No special dosage modifications are required unless renal or hepatic function is impaired, in which case dosage should be assessed individually.

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Do not give to children under 3 months of age.

For infants aged 3 - 5 months medical advice should be sought if symptoms worsen or not later than 24 hours if symptoms persist.

If in children aged from 6 months and in adolescents this medicinal product is required for more than 3 days, or if symptoms worsen a doctor should be consulted.

#### **4.3 Contraindications**

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

Patients who have previously shown hypersensitivity reactions (e.g. asthma, rhinitis, angioedema or urticaria) after taking ibuprofen, aspirin or other non-steroidal anti-inflammatory drugs (NSAIDs).

History of gastrointestinal bleeding or perforation, related to previous NSAID therapy.

Active or history of recurrent peptic ulcer/gastrointestinal haemorrhage (two or more distinct episodes of proven ulceration or bleeding).

Patients with conditions involving an increased tendency to bleeding.

Severe hepatic failure, renal failure and heart failure (NYHA Class IV).

Last trimester of pregnancy.

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

Undesirable effects may be minimised by using the minimum effective dose for the shortest possible duration necessary to control symptoms.

The use of Ibuprofen 100mg/5ml Oral Suspension with concomitant NSAIDs, including cyclooxygenase-2 selective inhibitors, should be avoided due to the increased risk of ulceration or bleeding.

The diagnosis of medication overuse headache (MOH) should be suspected in patients who have frequent or daily headaches despite (or because of) the regular use of analgesic medication.

Patients with medication overuse headache should not be treated by increasing the dose of the analgesic. In such cases the use of analgesics should be discontinued.

The concomitant consumption of excessive alcohol with NSAIDs, including ibuprofen, may

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increase the risk of adverse effects on the gastrointestinal tract, such as GI haemorrhage or the central nervous system possibly due to an additive effect.

*Elderly*

The elderly have an increased frequency of adverse reactions to NSAIDs, especially gastrointestinal bleeding and perforation which may be fatal.

*Paediatric population*

There is a risk of renal impairment in dehydrated children and adolescents.

*Impaired female fertility*

The use of Ibuprofen may impair female fertility and is not recommended in women attempting to conceive. In women who have difficulties conceiving or who are undergoing investigation of infertility, withdrawal of Ibuprofen should be considered.

*Gastrointestinal bleeding, ulceration and perforation*

GI bleeding, ulceration or perforation, which can be fatal, has been reported with all NSAIDs at any time during treatment, with or without warning symptoms or a previous history of serious GI events.

The risk of GI bleeding, ulceration or perforation is higher with increasing NSAID doses, in patients with a history of ulcer, particularly if complicated with haemorrhage or perforation and in the elderly. These patients should commence treatment on the lowest dose available.

Combination therapy with protective agents (e.g. misoprostol or proton pump inhibitors) should be considered for these patients, and also for patients requiring concomitant low dose aspirin, or other drugs likely to increase gastrointestinal risk.

Patients with a history of gastrointestinal disease, particularly when elderly, should report any unusual abdominal symptoms (especially gastrointestinal bleeding) particularly in the initial stages of treatment.

Caution should be advised in patients receiving concomitant medications which could increase the risk of ulceration or bleeding, such as oral corticosteroids, or anticoagulants such as warfarin, selective serotonin-reuptake inhibitors or anti-platelet agents such as aspirin.

When GI bleeding or ulceration occurs in patients receiving ibuprofen, the treatment should be withdrawn.

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NSAIDs should be given with care to patients with a history of ulcerative colitis or Crohn's disease as these conditions may be exacerbated.

*Respiratory disorders and hypersensitivity reactions*

Ibuprofen should be used with caution in patients suffering from, or with a previous history of, bronchial asthma, chronic rhinitis or allergic disease, since such patients may have NSAID – sensitive asthma which has been associated with severe bronchospasm, urticaria or angioedema.

*Cardiac, renal and hepatic impairment*

Administration of NSAID'S such as Ibuprofen may cause dose dependent in prostaglandin formation and precipitate renal failure. The habitual concomitant intake of various similar painkillers further increases this risk. Patients at greater risk of this reaction include those with impaired renal function, cardiac impairment or liver dysfunction, those taking diuretics and the elderly. For these patients, use the lowest effective dose, for the shortest possible duration and monitor renal function especially in long-term treated patients.

Ibuprofen 100mg/5ml Oral Suspension should be given with care to patients with a history of heart failure or hypertension since oedema has been reported in association with ibuprofen administration.

*Cardiovascular and cerebrovascular effects:*

Appropriate monitoring and caution (discussion with doctor or pharmacist) are required prior to starting treatment in patients with a history of hypertension and/or mild to moderate congestive heart failure as fluid retention; hypertension and oedema have been reported in association with NSAID therapy.

Clinical studies suggest that use of Ibuprofen, particularly at a high dose (2400 mg/day) may be associated with a small increased risk of arterial thrombotic events (for example myocardial infarction or stroke). Overall, epidemiological studies do not suggest that low dose ibuprofen (e.g.  $\leq 1200$  mg/day) is associated with an increased risk of arterial thrombotic events.

Patients with uncontrolled hypertension, congestive heart failure (NYHA II-III), established ischaemic heart disease, peripheral arterial disease, and/or cerebrovascular disease should only be treated with ibuprofen after careful consideration and high doses (2400 mg/day) should be avoided.

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Careful consideration should also be exercised before initiating long-term treatment of patients with risk factors for cardiovascular events (e.g. hypertension, hyperlipidaemia, diabetes mellitus, smoking), particularly if high doses of ibuprofen (2400 mg/day) are required.

*Renal effects*

Caution should be used when initiating treatment with ibuprofen in patients with considerable dehydration. There is a risk of renal impairment especially in dehydrated children, adolescents and the elderly.

As with other NSAIDs, long-term administration of ibuprofen has resulted in renal papillary necrosis and other renal pathologic changes. Renal toxicity has also been seen in patients in whom renal prostaglandins have a compensatory role in the maintenance of renal perfusion. In these patients, administration of an NSAID may cause a dose dependant reduction in prostaglandin formation and, secondarily, in renal blood flow, which may cause renal failure. Patients at greatest risk of this reaction are those with impaired renal function, heart failure, liver dysfunction, those taking diuretics and ACE inhibitors and the elderly. Discontinuation of NSAID therapy is usually followed by recovery to the pre-treatment state.

*SLE and mixed connective tissue disease*

Systemic lupus erythematosus and mixed connective tissue disease – increased risk of aseptic meningitis.

*Severe skin reactions:*

Serious skin reactions, some of them fatal, including exfoliative dermatitis, Stevens- Johnson syndrome, and toxic epidermal necrolysis, have been reported very rarely in association with the use of NSAIDs. Patients appear to be at highest risk for these reactions early in the course of therapy: the onset of the reaction occurring in the majority of cases within the first month of treatment. Acute generalised exanthematous pustulosis (AGEP) has been reported in relation to ibuprofen-containing products. Ibuprofen 100mg/5ml Oral Suspension should be discontinued at the first appearance of signs and symptoms of severe skin reactions, such as skin rash, mucosal lesion, or any other sign of hypersensitivity.

Exceptionally, varicella can be at the origin of serious cutaneous and soft tissues infectious complications. To date, the contributing role of NSAIDs in the worsening of these infections

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cannot be ruled out. Thus, it is advisable to avoid use of ibuprofen in case of varicella (chickenpox).

*Haematological effects*

Ibuprofen, like other NSAIDs, can interfere with platelet aggregation and prolong bleeding time in normal subjects.

*Aseptic meningitis*

Aseptic meningitis has been observed on rare occasions in patients on ibuprofen therapy.

Although it is probably more likely to occur in patients with systemic lupus erythematosus and related connective tissue diseases, it has been reported in patients who do not have an underlying chronic disease.

Masking of symptoms of underlying infections

Ibuprofen 100mg/5ml Oral Suspension can mask symptoms of infection, which may lead to delayed initiation of appropriate treatment and thereby worsening the outcome of the infection. This has been observed in bacterial community acquired pneumonia and bacterial complications to varicella. When Ibuprofen 100mg/5ml Oral Suspension is administered for fever or pain relief in relation to infection, monitoring of infection is advised. In non-hospital settings, the patient should consult a doctor if symptoms persist or worsen.

Excipients: Maltitol, Sodium methylhydroxybenzoate, sodium propylhydroxybenzoate, Propylene glycol and Sodium.

- Maltitol

This medicinal product contains Maltitol. Patients with rare hereditary problems of fructose intolerance should not take this medicine. Maltitol may have a mild laxative effect.

- Sodium methyl parahydroxybenzoate and sodium propyl parahydroxybenzoate: may cause allergic reactions (possibly delayed).

- Propylene glycol

This medicine product contains 5.2 mg propylene glycol in each 5 ml.

- Sodium

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

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

##### **Ibuprofen should be avoided in combination with:**

Acetylsalicylic acid (Aspirin): As with other products containing NSAIDs, concomitant administration of ibuprofen and acetylsalicylic acid is not generally recommended because of the potential of increased adverse effects.

Experimental data suggest that ibuprofen may competitively inhibit the effect of low dose acetylsalicylic acid on platelet aggregation when they are dosed concomitantly. Although there are uncertainties regarding extrapolation of these data to the clinical situation, the possibility that regular, long-term use of ibuprofen may reduce the cardioprotective effect of low-dose acetylsalicylic acid cannot be excluded. No clinically relevant effect is considered to be likely for occasional ibuprofen use.

Other NSAIDs including cyclooxygenase-2 selective inhibitors: avoid concomitant use of two or more NSAIDs as this may increase the risk of adverse effects.

Methotrexate: NSAIDs may inhibit the tubular secretion of methotrexate and reduce clearance of methotrexate.

##### **Ibuprofen should be used with caution in combination with:**

*Anticoagulants:* NSAIDs may enhance the effects of anticoagulants, such as warfarin.

*Antihypertensives, beta-blockers and diuretics:* NSAIDs may reduce the effect of antihypertensives, such as ACE inhibitors, angiotensin-II receptor antagonists, beta-blockers and diuretics.

Diuretic can also increase the risk of nephrotoxicity of NSAIDs.

*Corticosteroids:* increased risk of gastrointestinal ulceration or bleeding with NSAIDs.

*Anti-platelets agents and selective serotonin reuptake inhibitors (SSRIs):* Increased risk of gastrointestinal bleeding with NSAIDs.

*Cardiac glycosides:* NSAIDs may exacerbate cardiac failure, reduce GFR and increased plasma cardiac glycoside levels.

*Ciclosporin:* Increased risk of nephrotoxicity.

*Mifepristone:* A decrease in the efficacy of the medicinal product can theoretically occur due to



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the antiprostaglandin properties of NSAIDs. Limited evidence suggests that coadministration of NSAIDs on the day of prostaglandin administration does not adversely influence the effects of mifepristone or the prostaglandin on cervical ripening or uterine contractility and does not reduce the clinical efficacy of medicinal termination of pregnancy.

*Tacrolimus:* Possible increased risk of nephrotoxicity when NSAIDs are given with tacrolimus.

*Lithium:* Decreased elimination of lithium.

*Zidovudine:* Increased risk of haematological toxicity when NSAIDs are given with zidovudine.

There is evidence of an increased risk of haemarthroses and haematoma in HIV (+)

haemophiliacs receiving concurrent treatment with zidovudine and ibuprofen.

*Quinolone antibiotics:* Animal data indicate that NSAIDs can increase the risk of convulsions associated with quinolone antibiotics. Patients taking NSAIDs and quinolone may have increased risk of developing convulsions.

*Aminoglycosides:* NSAIDs may decrease the excretion of aminoglycosides.

*Cholestyramine:* The concomitant administration of ibuprofen and cholestyramine may reduce the absorption of ibuprofen in the gastrointestinal tract. However, the clinical significance is unknown.

*Sulphonylureas:* NSAIDs may potentiate the effects of sulfonylurea medications. There have been rare reports of hypoglycaemia in patients on sulfonylurea medications receiving ibuprofen.

*Herbal extracts:* Ginkgo biloba may potentiate the risk of bleeding with NSAIDs.

*CYP2C9 Inhibitors:* Concomitant administration of ibuprofen with CYP2C9 inhibitors may increase the exposure to ibuprofen (CYP2C9 substrate). In a study with voriconazole and fluconazole (CYP2C9 inhibitors), an increased S(+)-ibuprofen exposure by approximately 80 to 100% has been shown. Reduction of the ibuprofen dose should be considered when potent CYP2C9 inhibitors are administered concomitantly, particularly when high-dose ibuprofen is administered with either voriconazole or fluconazole.

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

##### *Pregnancy*

Inhibition of prostaglandin synthesis may adversely affect the pregnancy and/or embryo/foetal

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development. Data from epidemiological studies suggest an increased risk of miscarriage and of cardiac malformation and gastroschisis after the use of a prostaglandin synthesis inhibitor in early pregnancy. The risk is believed to increase with dose and duration of therapy. In animals, the administration of a prostaglandin synthesis inhibitor has been shown to result in increased pre- and post-implantation losses and embryo/foetal lethality. In addition, increased incidences of various malformations, including cardiovascular, have been reported in animals given a prostaglandin synthesis inhibitor during the organogenetic period.

During the first and second trimester of pregnancy, ibuprofen should not be given unless clearly necessary. If ibuprofen is used by a woman attempting to conceive, or during the first or second trimester of pregnancy, the dose should be kept as low and duration of treatment as short as possible.

During the third trimester of pregnancy, all prostaglandin synthesis inhibitors may expose the foetus to the following:

- Cardiopulmonary toxicity (with premature closure of the foetal ductus arteriosus and pulmonary hypertension.)
- Renal dysfunction, which may progress to renal failure with oligohydramnios.

At the end of pregnancy, prostaglandin synthesis inhibitors may expose the mother and the neonate to the following:

- Possible prolongation of bleeding time
- Inhibition of uterine contractions, which may result in delayed or prolonged labour.

Consequently, Ibuprofen is contraindicated during the third trimester of pregnancy.

***Breast-feeding***

In limited studies, NSAIDs can appear in the breast milk in very low concentrations. NSAIDs should, if possible, be avoided when breastfeeding.

Special warnings and precautions for use, regarding female fertility.

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

Undesirable effects such as dizziness, drowsiness, fatigue and visual disturbances are possible after taking NSAIDs. If affected, patients should not drive or operate machinery.

#### **4.8 Undesirable effects**

##### *Gastrointestinal disorders:*

The most commonly-observed adverse events are gastrointestinal in nature.

Peptic ulcers, perforation or gastrointestinal bleeding, sometimes fatal, particularly in the elderly may occur. Nausea, vomiting, diarrhoea, flatulence, constipation, dyspepsia, abdominal pain, melaena, haematemesis, ulcerative stomatitis, gastrointestinal haemorrhage and exacerbation of colitis and Crohn's disease have been reported following ibuprofen administration. Less frequently, gastritis, duodenal ulcer, gastric ulcer and gastrointestinal perforation have been observed.

A transient sensation of burning in the mouth or throat may occur with Ibuprofen 100mg/5ml Oral Suspension.

Immune system disorders: Hypersensitivity reactions have been reported following treatment with NSAIDs. These may consist of:

- (a) Non-specific allergic reactions and anaphylaxis
- (b) Respiratory tract reactivity comprising asthma, aggravated asthma, bronchospasm, dyspnoea.
- (c) Assorted skin disorders, including rashes of various types, pruritis, urticaria, purpura, angioedema and, very rarely, erythema multiforme, bullous dermatoses (including Stevens-Johnson syndrome and toxic epidermal necrolysis).

##### *Cardiac Disorders and Vascular Disorders:*

Oedema, hypertension, and cardiac failure, have been reported in association with NSAID treatment. Clinical studies suggest that use of Ibuprofen, particularly at high dose (2400 mg/day) may be associated with a small increased risk of arterial thrombotic events (for example myocardial infarction or stroke).

##### *Infections and Infestations:*

Rhinitis and aseptic meningitis (especially in patients with existing autoimmune disorders, such as systemic lupus erythematosus and mixed connective tissue disease) with symptoms of stiff neck, headache, nausea, vomiting, fever or disorientation.

Exacerbation of infection-related inflammations coinciding with the use of NSAIDs has been

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described. If signs of an infection occur or get worse during use of Ibuprofen the patient is therefore recommended to go to a doctor without delay.

*Skin and subcutaneous tissue disorders:*

In exceptional cases, severe forms of skin infections and soft-tissue complications may occur during a varicella infection (see also "Infections and infestations").

The following adverse reactions possibly related to ibuprofen and displayed by MedDRA frequency convention and system organ classification. Frequency groupings are classified according to the subsequent conventions: very common ( $\geq 1/10$ ), Common ( $\geq 1/100$  to  $< 1/10$ ), Uncommon ( $\geq 1/1,000$  to  $< 1/100$ ), Rare ( $\geq 1/10,000$  to  $< 1/1,000$ ), Very rare ( $< 1/10,000$ ) and Not known (cannot be estimated from the available data).

System organ class	Frequency	Adverse reaction
Infections and infestations	Uncommon	Rhinitis
	Rare	Meningitis aseptic
Blood and lymphatic system disorders	Rare	Leukopenia, thrombocytopenia, neutropenia, agranulocytosis, aplastic anaemia , haemolytic anaemia
Immune system disorders	Uncommon	Hypersensitivity
	Rare	Anaphylactic reaction
Psychiatric disorders	Uncommon	Insomnia, anxiety
	Rare	Depression, confusional state
Nervous system disorders	Common	Headache, dizziness
	Uncommon	Paraesthesia, somnolence
	Rare	Optic neuritis
Eye disorders	Uncommon	Visual impairment
	Rare	Toxic optic neuropathy
Ear and labyrinth disorders	Uncommon	Hearing impaired, tinnitus, vertigo
Respiratory, thoracic and	Uncommon	Asthma, bronchospasm, dyspnoea

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mediastinal disorders		
Gastrointestinal disorders	Common	Dyspepsia, diarrhoea, nausea, vomiting, abdominal pain, flatulence, constipation, melaena, haematemesis, gastrointestinal haemorrhage
	Uncommon	Gastritis, duodenal ulcer, gastric ulcer, mouth ulceration, gastrointestinal perforation
	Very rare	Pancreatitis
	Not known	Exacerbation of Colitis and Crohn's disease
Hepatobiliary disorders	Uncommon	Hepatitis, jaundice, hepatic function abnormal
	Very rare	Hepatic failure
Skin and subcutaneous tissue disorders	Common	Rash
	Uncommon	Urticaria, pruritus, purpura, angioedema, photosensitivity reaction
	Very rare	Severe forms of skin reactions (e.g. Erythema multiforme, bullous reactions, including Stevens-Johnson syndrome, and toxic epidermal necrolysis)
	Not known	Drug reaction with eosinophilia and systemic symptoms (DRESS syndrome), Acute generalised exanthematous pustulosis (AGEP), Photosensitivity reactions
Renal and urinary disorders	Uncommon	Nephrotoxicity in various forms e.g. Tubulointerstitial nephritis, nephrotic syndrome and renal failure
General disorders and administration site conditions	Common	Fatigue
	Rare	Oedema
Cardiac disorders	Very rare	Cardiac failure, myocardial infarction
Vascular disorders	Very rare	Hypertension

**Reporting of suspected adverse reactions**

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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**

In children ingestion of more than 400 mg/kg may cause symptoms. In adults the dose response effect is less clear cut. The half-life in overdose is 1.5 – 3 hours.

##### **Symptoms**

Most patients who have ingested clinically important amounts of NSAIDs will develop no more than nausea, vomiting, epigastric pain, or more rarely diarrhoea. Tinnitus, headache and gastrointestinal bleeding are also possible. In more serious poisoning, toxicity is seen in the central nervous system, manifesting as drowsiness, occasionally excitation and disorientation or coma. Occasionally patients develop convulsions. In serious poisoning metabolic acidosis may occur and the prothrombin time/INR may be prolonged, probably due to interference with the actions of circulating clotting factors. Acute renal failure and liver damage may occur.

Exacerbation of asthma is possible in asthmatics.

##### **Management**

Management should be symptomatic and supportive and include the maintenance of a clear airway and monitoring of cardiac and vital signs until stable. Consider oral administration of activated charcoal if the patient presents within 1 hour of ingestion of a potentially toxic amount. If frequent or prolonged, convulsions should be treated with intravenous diazepam or lorazepam. Give bronchodilators for asthma.

#### **5. Pharmacological properties**

##### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Anti-inflammatory and antirheumatic products, nonsteroidal; propionic acid derivatives.

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ATC code: M01AE01

Ibuprofen is a propionic acid derivative NSAID that has demonstrated its efficacy by inhibition of prostaglandin synthesis. In humans ibuprofen reduces inflammatory pain, swelling and fever. Furthermore, ibuprofen reversibly inhibits platelet aggregation.

Experimental data suggest that ibuprofen may competitively inhibit the effect of low dose acetylsalicylic acid (aspirin) on platelet aggregation when they are dosed concomitantly. Some pharmacodynamic studies show that when single doses of ibuprofen 400 mg were taken within 8 h before or within 30 min after immediate release acetylsalicylic acid dosing (81 mg), a decreased effect of acetylsalicylic acid on the formation of thromboxane or platelet aggregation occurred. Although there are uncertainties regarding extrapolation of these data to the clinical situation, the possibility that regular, long-term use of ibuprofen may reduce the cardioprotective effect of low-dose acetylsalicylic acid cannot be excluded. No clinically relevant effect is considered to be likely for occasional ibuprofen use.

## **5.2 Pharmacokinetic properties**

Ibuprofen is rapidly absorbed following administration and is rapidly distributed throughout the whole body. Peak plasma concentrations occur about 1 to 2 hours after ingestion with food or in 45 minutes if taken on an empty stomach. These times may vary with different dosage forms.

The excretion is rapid and complete via the kidneys.

The half-life of ibuprofen is about 2 hours.

In limited studies, ibuprofen appears in the breast milk in very low concentrations.

It is metabolised to two inactive metabolites and these are rapidly excreted in urine. About 1 percent is excreted in urine as unchanged Ibuprofen and about 14 percent as conjugated

Ibuprofen

Ibuprofen is extensively bound to plasma proteins.

## **5.3 Preclinical safety data**

No relevant information additional to that contained elsewhere in the SPC.

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## **6. Pharmaceutical particulars**

### **6.1 List of excipients**

Sorbitol

Aerosil

Sucrose

Sodium CMC

Orange Flavour

Sodium Methylparaben

Sodium Propylparaben

Tween 80

Citric Acid

Sunset Yellow

Strawberry Flavour

### **6.2 Incompatibilities**

None stated except as in 'Interaction with other medicinal products and other forms of interaction'.

### **6.3 Shelf life**

36 months

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

Do not store above 30°C.

Keep out of sight and reach of children.

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

An amber glass bottle sealed.

**Pack sizes available: 100 ml.**



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

Shake well before use.

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

### **7. Marketing authorisation holder**

#### **Archy Pharmaceuticals Ltd,**

Plot 30, Win Funke Street, Off Access bank junction Ahmadiyya, Lagos Abeokuta Expressway, Ojokoro  
Lagos State

8. Manufacturer  
ARCHY PHARMACEUTICALS LIMITED,  
HOUSE 10, CLOSE 21 ROAD, FESTAC TOWN,  
LAGOS