

Summary of Product Characteristics

1 NAME OF THE MEDICINAL PRODUCT

Reletrans 5 micrograms/hour Transdermal Patches

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each transdermal patch contains 5 mg of buprenorphine per 6.25 cm², releasing 5 micrograms of buprenorphine per hour.

For the full list of excipients, see section 6.1.

3 PHARMACEUTICAL FORM

Transdermal patch.

The product is composed of a drug containing transdermal patch integrated with an oversized pale yellowish-brown cover patch without any active substance. The shape of the transdermal patch is rectangular with rounded edges. The transdermal patch contains the following imprint:

'Buprenorphinum 5 microgram/h'

4 CLINICAL PARTICULARS

4.1 Therapeutic Indications

Treatment of non-malignant pain of moderate intensity when an opioid is necessary for obtaining adequate analgesia.

Reletrans is not suitable for the treatment of acute pain.

Reletrans is indicated in adults.

4.2 Posology and method of administration

Posology

Reletrans should be administered every 7th day.

Patients aged 18 years and over

The lowest Reletrans dose Reletrans (5 microgram/hour Transdermal Patch) should be used as the initial dose. Consideration should be given to the previous opioid history of the patient (see section 4.5) as well as to the current general condition and medical status of the patient.

Reletrans should not be used at higher doses than recommended.

Titration

During initiation of treatment with Reletrans, short-acting supplemental analgesics may be required (see section 4.5) as needed until analgesic efficacy with Reletrans is attained.

The dose of Reletrans may be titrated upwards as indicated after 3 days, when the maximum effect of a given dose is established. Subsequent dose increases may then be titrated based on the need for supplemental pain relief and the patient's analgesic response to the transdermal patch.

To increase the dose, a patch with a higher strength should replace the transdermal patch that is currently being worn, or a combination of patches should be applied in different places to achieve the desired dose. It is recommended that no more than two transdermal patches are applied at the same time, up to a maximum total dose of 40 microgram/hour buprenorphine. Patients should be carefully and regularly monitored to assess the optimum dose and duration of treatment.

Conversion from opioids

Buprenorphine transdermal patches can be used as an alternative to treatment with other opioids. Such patients should be started on the lowest available dose (Reletrans 5 microgram/hour Transdermal Patch) and continue taking short-acting supplemental analgesics (see section 4.5) during titration, as required.

Duration of administration

Reletrans should under no circumstances be administered for longer than absolutely necessary. If long-term pain treatment with Reletrans is necessary in view of the nature and severity of the illness, then careful and regular monitoring should be carried out (if necessary with breaks in treatment) to establish whether and to what extent further treatment is necessary.

Discontinuation

After removal of the transdermal patch, buprenorphine serum concentrations decrease gradually and thus the analgesic effect is maintained for a certain amount of time. This should be considered when therapy with Reletrans is to be followed by other opioids. As a general rule, a subsequent opioid should not be administered within 24 hours after removal of the transdermal patch. At present, only limited information is available on the starting dose of other opioids administered after discontinuation of the transdermal patch (see section 4.5).

Special populations

Elderly patients

No dose adjustment of Reletrans is required in elderly patients.

Renal impairment

No special dose adjustment of Reletrans is necessary in patients with renal impairment.

Hepatic impairment

Buprenorphine is metabolised in the liver. The intensity and duration of its action may be affected in patients with impaired liver function. Therefore, patients with hepatic insufficiency should be carefully monitored during treatment with Reletrans.

Patients with severe hepatic impairment may accumulate buprenorphine during Reletrans treatment. Alternate therapy should be considered, and Reletrans should be used with caution, if at all, in such patients.

Since CYP3A4 inhibitors may increase concentrations of buprenorphine (see section 4.5), patients already treated with CYP3A4 inhibitors should have their dose of buprenorphine transdermal patches carefully titrated since a reduced dose might be sufficient in these patients.

Paediatric population

The safety and efficacy of buprenorphine transdermal patches in children and adolescents below 18 years of age has not been established. No data are available.

Method of administration

Transdermal use.

Transdermal patch to be worn for 7 days. The patch must not be divided or cut into pieces.

Transdermal patch application

Reletrans should be applied to non-irritated, intact skin of the upper outer arm, upper chest, upper back or the side of the chest, but not to any parts of the skin with large scars. Reletrans should be applied to a relatively hairless or nearly hairless skin site. If none are available, the hair at the site should be cut with scissors, not shaven.

If the application site must be cleaned, it should be done with clean water only. Soaps, alcohol, oils, lotions or abrasive devices must not be used. The skin must be dry before the transdermal patch is applied. The transdermal patches should be applied immediately after removal from the sealed sachet. Following removal of the protective layer, the transdermal patch should be pressed firmly in place with the palm of the hand for approximately 30 seconds, making sure the contact is complete, especially around the edges. If the edges of the transdermal patch begin to peel off, the edges may be taped down with suitable skin tape, to ensure a 7-day period of wear.

Bathing, showering, or swimming should not affect the transdermal patch. If a transdermal patch falls off, a new one should be applied and worn for 7 days.

A new transdermal patch should not be applied to the same skin site for the subsequent 3-4 weeks (see section 5.2).

While wearing the patch, patients should be advised to avoid exposing the application site to external heat sources (see section 4.4).

4.3 Contraindications

- Hypersensitivity to the active substance or to any of the excipients listed in section 6.1
- Opioid dependent patients and for narcotic withdrawal treatment
- Conditions in which the respiratory centre and function are severely impaired or may become so
- Patients who are receiving MAO inhibitors or have taken them within the last two weeks (see section 4.5)
- Patients suffering from myasthenia gravis
- Patients suffering from delirium tremens.

4.4 Special warnings and precautions for use

Buprenorphine transdermal patches should be used with particular caution in patients with acute alcohol intoxication, head injury, shock, a reduced level of consciousness of uncertain origin, intracranial lesions or increased intracranial pressure, or in patients with severe hepatic impairment (see section 4.2).

Buprenorphine may lower the seizure threshold in patients with a history of seizure disorder.

Significant respiratory depression has been associated with buprenorphine, particularly by the intravenous route. A number of overdose deaths have occurred when addicts have intravenously abused buprenorphine, usually with benzodiazepines concomitantly.

Additional overdose deaths due to ethanol and benzodiazepines in combination with buprenorphine have been reported (see section 4.5).

Risk from concomitant use of sedative medicinal products such as benzodiazepines or related medicinal products

Concomitant use of buprenorphine and sedative medicinal products such as benzodiazepines or related medicinal products may result in sedation, respiratory depression, coma and death. Because of these risks, concomitant prescribing with these sedative medicinal products should be reserved for patients for whom alternative treatment options are not possible. If a decision is made to prescribe buprenorphine concomitantly with sedative medicinal products, the lowest effective dose should be used, and the duration of treatment should be as short as possible.

The patients should be followed closely for signs and symptoms of respiratory depression and sedation. In this respect, it is strongly recommended to inform patients and their caregivers to be aware of these symptoms (see section 4.5).

Serotonin syndrome

Concomitant administration of buprenorphine and other serotonergic agents, such as selective serotonin re-uptake inhibitors (SSRIs), serotonin norepinephrine re-uptake inhibitors (SNRIs) or tricyclic antidepressants may result in serotonin syndrome, a potentially life-threatening condition (see section 4.5).

If concomitant treatment with other serotonergic agents is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases.

Symptoms of serotonin syndrome may include mental-status changes, autonomic instability, neuromuscular abnormalities, and/or gastrointestinal symptoms.

If serotonin syndrome is suspected, a dose reduction or discontinuation of therapy should be considered depending on the severity of the symptoms.

Sleep-related breathing disorders

Opioids can cause sleep-related breathing disorders including central sleep apnoea (CSA) and sleep-related hypoxemia. Opioid use increases the risk of CSA in a dose-dependent fashion. In patients who present with CSA, consider decreasing the total opioid dose.

Buprenorphine transdermal patches are not recommended for analgesia in the immediate post-operative period or in other situations characterised by a narrow therapeutic index or a rapidly varying analgesic requirement.

Controlled human and animal studies indicate that buprenorphine has a lower dependence liability than pure agonist analgesics. In humans limited euphorigenic effects have been observed with buprenorphine. This may result in some abuse of the medicinal product and caution should be exercised when prescribing to patients known to have, or suspected of having, a history of drug abuse or alcohol abuse or serious mental illness.

Chronic use of buprenorphine can result in the development of physical dependence. Withdrawal (abstinence syndrome), when it occurs, is generally mild, begins after 2 days and may last up to 2 weeks. Withdrawal symptoms include agitation, anxiety, nervousness, insomnia, hyperkinesia, tremor and gastrointestinal disorders.

Buprenorphine transdermal patches should not be used at higher doses than recommended.

Patients with fever or exposed to external heat

While wearing the transdermal patch, patients should be advised to avoid exposing the application site to external heat sources, such as heating pads, electric blankets, heat lamps, sauna, hot tubs, and heated water beds, etc., as an increase in absorption of buprenorphine may occur.

When treating febrile patients, one should be aware that fever may also increase absorption resulting in increased plasma concentrations of buprenorphine and thereby increased risk of opioid reactions.

Athletes must be aware that this medicinal product may cause a positive reaction to sports doping control tests. Use of Reletrans as a doping agent may become a health hazard.

4.5 Interaction with other medicinal products and other forms of interactions

Buprenorphine transdermal patches must not be used concomitantly with MAOIs or in patients who have received MAOIs within the previous two weeks (see section 4.3).

Effect of other active substances on the pharmacokinetics of buprenorphine

Buprenorphine is primarily metabolised by glucuronidation and to a lesser extent (about 30%) by CYP3A4. Concomitant treatment with CYP3A4 inhibitors may lead to elevated plasma concentrations with intensified efficacy of buprenorphine.

Studies with the CYP3A4 inhibitor ketoconazole did not produce clinically relevant increases in mean maximum (C_{max}) or total (AUC) buprenorphine exposure following use of buprenorphine transdermal patches with ketoconazole as compared to buprenorphine transdermal patches alone.

The interaction between buprenorphine and CYP3A4 enzyme inducers has not been studied. Co-administration of buprenorphine transdermal patches and enzyme inducers (e.g. phenobarbital, carbamazepine, phenytoin and rifampicin) could lead to increased clearance which might result in reduced efficacy.

Reductions in hepatic blood flow induced by some general anaesthetics (e.g. halothane) and other medicinal products may result in a decreased rate of hepatic elimination of buprenorphine.

Pharmacodynamic interactions

Reletrans should be used cautiously when co-administered with:

- Sedative medicinal products such as benzodiazepines or related medicinal products: The concomitant use of opioids with sedative medicinal products such as benzodiazepines or related medicinal products increases the risk of sedation, respiratory depression, coma and death because of additive CNS depressant effect. The dose and duration of concomitant use should be limited (see section 4.4).
- Other central nervous system depressants: other opioid derivatives (analgesics and antitussives containing e.g. morphine, dextropropoxyphene, codeine, dextromethorphan or noscapine). Certain antidepressants, sedative H1-receptor antagonists, alcohol, anxiolytics, neuroleptics, clonidine and related substances. These combinations increase the CNS depressant activity.
- serotonergic medicinal products, such as selective serotonin re-uptake inhibitors (SSRIs), serotonin norepinephrine re-uptake inhibitors (SNRIs) or tricyclic antidepressants as the risk of serotonin syndrome, a potentially life-threatening condition, is increased (see section 4.4).

At typical analgesic doses buprenorphine is described to function as a pure mu receptor agonist. In buprenorphine transdermal patch clinical studies subjects receiving full mu agonist opioids (up to 90 mg oral morphine or oral morphine equivalents per day) were transferred to buprenorphine transdermal patches. There were no reports of abstinence syndrome or opioid withdrawal during conversion from entry opioid to buprenorphine transdermal patches (see section 4.4).

4.6 Fertility, pregnancy and lactation

Pregnancy

There are no or limited amounts of data from the use of buprenorphine transdermal patches in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). The potential risk for humans is unknown. Towards the end of pregnancy high doses of buprenorphine may induce respiratory depression in the newborn infant even after a short period of administration. Prolonged use of buprenorphine during pregnancy can result in neonatal opioid withdrawal syndrome. Therefore, Reletrans should not be used during pregnancy and in women of childbearing potential who are not using effective contraception.

Breast-feeding

Buprenorphine is excreted in human milk. Studies in rats have shown that buprenorphine may inhibit lactation. Available pharmacodynamic/toxicological data in animals have shown excretion of buprenorphine in milk (see section 5.3). Therefore, the use of Reletrans during lactation should be avoided.

Fertility

No human data on the effect of buprenorphine on fertility are available. In a fertility and early embryonic development study, no effects on reproductive parameters were observed in male or female rats (see section 5.3).

4.7 Effects on ability to drive and use machines

Buprenorphine transdermal patches have a major influence on the ability to drive and use machines. Even when used according to instructions, buprenorphine transdermal patches may affect the patient's reactions to such an extent that road safety and the ability to operate machinery may be impaired. This applies particularly in the beginning of treatment and in conjunction with other centrally acting substances including alcohol, tranquillisers, sedatives and hypnotics. An individual recommendation should be given by the physician. A general restriction is not necessary in cases where a stable dose is used.

Patients who are affected and experience adverse reactions (e.g. dizziness, drowsiness, blurred vision) during treatment initiation or titration to a higher dose should not drive or use machines for at least 24 hours after the transdermal patch has been removed.

4.8 Undesirable effects

Serious adverse reactions that may be associated with buprenorphine transdermal patches therapy in clinical use are similar to those observed with other opioid analgesics, including respiratory depression (especially when used with other CNS depressants) and hypotension (see section 4.4).

The following undesirable effects have occurred:

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 ($< 1/10,000$)

Not known (cannot be estimated from the available data)

| System organ class | Very common | Common | Uncommon | Rare | Very rare | Frequency not known |
|------------------------------------|-------------|----------|------------------|-----------------------|-----------|------------------------|
| Immune system disorders | | | hypersensitivity | anaphylactic reaction | | anaphylactoid reaction |
| Metabolism and nutrition disorders | | anorexia | | dehydration | | |

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|--|---------------------------------------|--|--|--|---------------------------------------|--|
| Psychiatric disorders | | confusion, depression, insomnia, nervousness anxiety | Affect lability, sleep disorder, restlessness, agitation, euphoric mood, hallucinations, libido decreased, nightmares, aggression | psychotic disorder | drug dependence, mood swings | depersonal- isation |
| Nervous system disorders | headache, dizziness, somnolence | tremor, | sedation, dysgeusia, dysarthria, hypoesthesia, memory impairment, migraine, syncope, abnormal coordination, disturbance in attention, paraesthesia | balance disorder, speech disorder | involuntary muscle contractions | seizures |
| Eye disorders | | | dry eye, blurred vision | visual disturbance, eyelid oedema, miosis | | |
| Ear and labyrinth disorders | | | tinnitus, vertigo | | ear pain | |
| Cardiac disorders | | | palpitations, tachycardia | angina pectoris | | |
| Vascular disorders | | | hypotension, circulatory collapse, hypertension, flushing | vasodilatation, orthostatic hypotension | | |
| Respiratory, thoracic and mediastinal disorders | | dyspnoea | cough, wheezing, hiccups | respiratory depression, respiratory failure, asthma aggravated, hyperventil- ation, rhinitis | | |
| Gastrointestinal disorders | constipation, nausea, vomiting | abdominal pain, diarrhoea, dyspepsia, dry mouth | flatulence | dysphagia, ileus | | diverticulitis |
| Hepatobiliary disorders | | | | | | biliary colic |
| Skin and subcutaneous tissue disorders | pruritus, erythema | rash, sweating, exanthema | dry skin, urticaria, dermatitis contact | face oedema | pustules, vesicles | dermatitis contact, application site skin discolouration |
| Musculoskeletal and connective tissue | | muscular weakness | myalgia, muscle spasms | | | |

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|---|--|---|--|--|--|-----------------------------------|
| disorders | | | | | | |
| Renal and urinary disorders | | | urinary incontinence, urinary retention, urinary hesitation | | | |
| Reproductive system and breast disorders | | | | erectile dysfunction, sexual dysfunction | | |
| General disorders and administration site conditions | application site reaction including erythema, oedema, pruritus, rash | tiredness, asthenia, peripheral oedema, | fatigue, pyrexia, rigors, oedema, drug withdrawal syndrome, application site dermatitis*, chest pain | influenza like illness | | drug withdrawal syndrome neonatal |
| Investigations | | | alanine aminotransferase increased, weight decreased | | | |
| Injury, poisoning and procedural complications | | | accidental injury, fall | | | |

* In some cases delayed local allergic reactions occurred with marked signs of inflammation. In such cases treatment with Reletrans should be terminated.

Buprenorphine has a low risk of physical dependence. After discontinuation of buprenorphine transdermal patches, withdrawal symptoms are unlikely. This may be due to the very slow dissociation of buprenorphine from the opioid receptors and to the gradual decrease of buprenorphine plasma concentrations (usually over a period of 30 hours after removal of the last patch). However, after long-term use of buprenorphine transdermal patches, withdrawal symptoms similar to those occurring during opioid withdrawal cannot be entirely excluded. These symptoms include agitation, anxiety, nervousness, insomnia, hyperkinesia, tremor and gastrointestinal disorders.

Reporting of suspected adverse reactions

This includes any possible side effects not listed in this leaflet. You can also report side effects directly via HPRC Pharmacovigilance, Earlsfort Terrace, IRL - Dublin 2; Tel: +353 1 6764971; Fax: +353 1 6762517. Website: www.hpra.ie; E-mail: medsafety@hpra.ie. By reporting side effects you can help provide more information on the safety of this medicine.

4.9 Overdose

Symptoms

Symptoms similar to those of other centrally acting analgesics are to be expected. These include respiratory depression, sedation, drowsiness, nausea, vomiting, cardiovascular collapse and marked miosis.

Treatment

Any transdermal patches should be removed from the patient's skin. A patent airway should be established and maintained, respiration assisted or controlled as indicated and adequate body temperature and fluid balance should be maintained. Oxygen, intravenous fluids, vasopressors and other supportive measures should be employed as indicated.

A specific opioid antagonist such as naloxone may reverse the effects of buprenorphine, although naloxone may be less effective in reversing the effects of buprenorphine than other mu-opioid agonists. Treatment with continuous intravenous naloxone should begin with the usual doses but high doses may be required.

5 PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Analgesics, opioids, oripavine derivatives

ATC code: N02AE01

Mechanism of action

Buprenorphine is a partial agonist opioid, acting at the mu opioid receptor. It also has antagonistic activity at the kappa opioid receptor.

Clinical efficacy and safety

Efficacy has been demonstrated in seven pivotal phase III studies of up to 12 weeks duration in patients with non-malignant pain of various aetiologies. These included patients with moderate and severe osteoarthritis (OA) and back pain.

Buprenorphine transdermal patches demonstrated clinically significant reductions in pain scores (approximately 3 points on the BS-11 scale) and significantly greater pain control compared with placebo.

A long term, open-label extension study (n=384) has also been performed in patients with non-malignant pain. With chronic dosing, 63% of patients were maintained in pain control for 6 months, 39% of patients for 12 months, 13% of patients for 18 months and 6% for 21 months. Approximately 17% were stabilised on the 5 microgram/hour strength, 35% on the 10 microgram/hour strength and 48% on the 20 microgram/hour strength.

5.2 Pharmacokinetic properties

Each transdermal patch provides a steady delivery of buprenorphine for up to seven days. Steady state is achieved during the first application. After removal of Reletrans, buprenorphine concentrations decline, decreasing approximately 50% in 12 hours (range 10–24 h).

Absorption

Following Reletrans application, buprenorphine diffuses from the transdermal patch through the skin. In clinical pharmacology studies, the median time for buprenorphine transdermal patches 10 microgram/hour to deliver detectable buprenorphine concentrations (25 picograms/ml) was approximately 17 hours. Analysis of residual buprenorphine in transdermal patches after 7-day use shows 15% of the original load delivered. A study of bioavailability, relative to intravenous administration, confirms that this amount is systemically absorbed. Buprenorphine concentrations remain relatively constant during the 7-day patch application.

Application site:

A study in healthy subjects demonstrated that the pharmacokinetic profile of buprenorphine delivered by buprenorphine transdermal patch is similar when applied to upper outer arm, upper chest, upper back or the side of the chest (midaxillary line, 5th intercostal space). The absorption varies to some extent depending on the application site and the exposure is at the most approximately 26% higher when applied to the upper back compared to the side of the chest.

In a study of healthy subjects receiving buprenorphine transdermal patch repeatedly to the same site, an almost doubled exposure was seen with a 14 day rest period. For this reason, rotation of application sites is recommended, and a new transdermal patch should not be applied to the same skin site for 3-4 weeks.

In a study of healthy subjects, application of a heating pad directly on the transdermal patch caused a transient 26 - 55% increase in blood concentrations of buprenorphine. Concentrations returned to normal within 5 hours after the heat was removed. For this reason, applying direct heat sources such as hot water bottles, heat pads or electric blankets directly to the transdermal patch is not recommended (see section 4.4). A heating pad applied to a buprenorphine transdermal patch site immediately after patch removal did not alter absorption from the skin depot.

Distribution

There is evidence of enterohepatic recirculation.

Studies in non-pregnant and pregnant rats have shown that buprenorphine passes the blood-brain and placental barriers. Concentrations in the brain (which contained only unchanged buprenorphine) after parenteral administration were 2-3 times higher than after oral administration. After intramuscular or oral administration buprenorphine apparently accumulates in the foetal gastrointestinal lumen – presumably due to biliary excretion, as enterohepatic circulation has not fully developed.

Buprenorphine is approximately 96% bound to plasma proteins.

Studies of intravenous buprenorphine have shown a large volume of distribution, implying extensive distribution of buprenorphine. In a study of intravenous buprenorphine in healthy subjects, the volume of distribution at steady state was 430 l, reflecting the large volume of distribution and lipophilicity of the active substance. Following intravenous administration, buprenorphine and its metabolites are secreted into bile, and within several minutes, distributed into the cerebrospinal fluid. Buprenorphine concentrations in the cerebrospinal fluid appear to be approximately 15% to 25% of concurrent plasma concentrations.

Biotransformation and elimination

Buprenorphine metabolism in the skin following application of buprenorphine transdermal patches is negligible. Following transdermal application, buprenorphine is eliminated via hepatic metabolism, with subsequent biliary excretion and renal excretion of soluble metabolites. Hepatic metabolism, through CYP3A4 and UGT1A1/1A3 enzymes, results in two primary metabolites, norbuprenorphine and buprenorphine 3-O-glucuronide, respectively. Norbuprenorphine is glucuronidated before elimination. Buprenorphine is also eliminated in the faeces. In a study in post-operative patients, the total elimination of buprenorphine was shown to be approximately 55 l/h.

Norbuprenorphine is the only known active metabolite of buprenorphine.

Effect of buprenorphine on the pharmacokinetics of other active substances

Based on *in vitro* studies in human microsomes and hepatocytes, buprenorphine does not have the potential to inhibit metabolism catalysed by the CYP450 enzymes CYP1A2, CYP2A6 and CYP3A4 at concentrations obtained with use of Reletrans 20 microgram/hour transdermal patch. The effect on metabolism catalysed by CYP2C8, CYP2C9 and CYP2C19 has not been studied.

5.3 Preclinical safety data

Reproductive and developmental toxicity

No effect on fertility or general reproductive performance was observed in rats treated with buprenorphine. In embryofoetal developmental toxicity studies conducted in rats and rabbits using buprenorphine, no embryofoetal toxicity effects were observed. In a rat pre- and post-natal developmental toxicity study with buprenorphine there was pup mortality, decreased pup body weight and concomitant maternal reduced food consumption and clinical signs.

Genotoxicity

A standard battery of genotoxicity tests indicated that buprenorphine is non-genotoxic.

Carcinogenicity

In long-term studies in rats and mice there was no evidence of any carcinogenic potential relevant for humans.

Systemic toxicity and dermal toxicity

In single- and repeat-dose toxicity studies in rats, rabbits, guinea pigs, dogs and minipigs, buprenorphine transdermal patch caused minimal or no adverse systemic events, whereas skin irritation was observed in all species examined. Toxicological data available did not indicate a sensitising potential of the additives of the transdermal patches.

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Release liner (to be removed before applying the patch):

Poly(ethylene terephthalate) foil, siliconized

Adhesive matrix (containing buprenorphine):

Levulinic acid

Oleyl oleate

Povidone K90

Poly[acrylic acid-co-butylacrylate-co-(2-ethylhexyl)acrylate-co-vinylacetate] (5:15:75:5)

Separating film: (between the adhesive matrices with and without buprenorphine):

Poly(ethylene terephthalate) foil

Adhesive matrix (without buprenorphine):

Acrylate adhesive

Backing layer (printed):

Polyurethane backing foil

Printing ink

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

2 years.

6.4 Special precautions for storage

Do not store above 25°C

6.5 Nature and contents of container

Each transdermal patch is individually packed in a child resistant sachet made of PET/Alu/PE.

Carton containing 1, 2, 3, 4, 5, 8, 10, 12 or 20 transdermal patches.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

Used transdermal patches should be folded with the adhesive surface inwards. Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7 MARKETING AUTHORISATION HOLDER

Rowex Ltd
Newtown
Bantry
Co. Cork
Ireland

8 MARKETING AUTHORISATION NUMBER

PA0711/236/001

9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 5th February 2016

Date of last renewal: 12th January 2021

10 DATE OF REVISION OF THE TEXT

September 2021