

## Package leaflet: Information for the user

### **Methoxyflurane Medical Developments MD&P 99.9%, 3 ml inhalation vapour, liquid**

methoxyflurane

**Read all of this leaflet carefully before you start using this medicine because it contains important information for you.**

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your healthcare professional.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your healthcare professional. This includes any possible side effects not listed in this leaflet. See section 4.

#### **What is in this leaflet**

1. What **Methoxyflurane Medical Developments MD&P** is and what it is used for
2. What you need to know before you use **Methoxyflurane Medical Developments MD&P**
3. How to use **Methoxyflurane Medical Developments MD&P**
4. Possible side effects
5. How to store **Methoxyflurane Medical Developments MD&P**
6. Contents of the pack and other information

#### **1. What Methoxyflurane Medical Developments MD&P is and what it is used for**

**Methoxyflurane Medical Developments MD&P** contains the active substance methoxyflurane. It is a medicine which is used to reduce pain in patients aged 6 years and older. It is inhaled through the **Methoxyflurane Medical Developments MD&P Inhaler**.

The intended purpose of the **Methoxyflurane Medical Developments MD&P Inhaler** is to administer the analgesic drug **Methoxyflurane Medical Developments MD&P** (methoxyflurane).

**Methoxyflurane Medical Developments MD&P** is poured into the device and as you breathe in through the device you inhale the **Methoxyflurane Medical Developments MD&P** vapour. The attached Activated Carbon (AC) Chamber adsorbs the **Methoxyflurane Medical Developments MD&P** vapour you are exhaling through the **Methoxyflurane Medical Developments MD&P Inhaler**.

**Methoxyflurane Medical Developments MD&P** administered through the **Methoxyflurane Medical Developments MD&P Inhaler**, is intended to reduce the severity of pain, rather than stop it completely.

#### **2. What you need to know before you use Methoxyflurane Medical Developments MD&P**

##### **Do not use Methoxyflurane Medical Developments MD&P if you:**

- are allergic to methoxyflurane, any inhalation anaesthetics or any of the other ingredients of this medicine (listed in section 6).
- have a history or family history of malignant hyperthermia. Malignant hyperthermia is a condition where symptoms such as a very high fever, fast, irregular heartbeat, muscle spasms and breathing problems have occurred after you, or a related family member, have been given an anaesthetic
- or your family have a history of severe side effects to inhaled anaesthetics
- have previously had liver damage after using methoxyflurane or any inhalation anaesthetics
- have significant kidney impairment
- have a change in the level of consciousness due to any cause including head injury, drugs, or alcohol

- have significant heart or circulatory problems
- have shallow breathing or difficulty in breathing.

This medicine must not be used as an anaesthetic.

If you are not sure whether you should be given this medicine, talk to your healthcare professional.

### **Warnings and precautions**

Talk to your healthcare professional before using **Methoxyflurane Medical Developments MD&P** if you:

- have liver or kidney problems
- have a medical condition which may cause kidney problems
- are elderly

Respiratory depression, with symptoms such as too slow and shallow breathing or other difficulties in breathing, has been reported in association with treatment with **Methoxyflurane Medical Developments MD&P** (section 4). Tell your healthcare professional immediately if you experience any breathing problems.

### **Children**

Do not give this medicine to children under 6 years of age.

### **Other medicines and Methoxyflurane Medical Developments MD&P**

Tell your healthcare professional if you are taking or have recently taken any other medicines. In particular, tell your healthcare professional if you are taking any of the following:

- Isoniazid to treat tuberculosis
- Phenobarbital or carbamazepine to treat epilepsy
- Rifampicin or other antibiotics to treat infection
- Medicines, or illegal drugs, that have a dampening effect on the nervous system such as narcotics, pain killers, sedatives, sleeping pills, general anaesthetics, phenothiazines, tranquilisers, muscle relaxants and sedating antihistamines.
- Antibiotics and other medicines that may harm the kidney such as tetracycline, gentamicin, colistin, polymyxin B, amphotericin B and contrast agents.
- Efavirenz or nevirapine to treat HIV

Ask your healthcare professional if you are unsure.

If you need hospital treatment requiring general anaesthesia, tell the doctors treating you that you have used this medicine.

### **Methoxyflurane Medical Developments MD&P with food, drink and alcohol**

Do not drink alcohol whilst taking this medicine as it may increase its effect.

You can eat and drink as normal whilst taking this medicine, unless advised by your healthcare professional.

### **Pregnancy, breast-feeding and fertility**

Tell your healthcare professional before taking this medicine if you are pregnant, intending to become pregnant, are breast-feeding or intending to breast-feed. Your healthcare professional will discuss the possible risks and benefits of being given this medicine.

### **Driving and using machines**

This medicine can affect your ability to drive or use machines safely. Make sure these abilities are not affected before you drive or operate machinery. **Methoxyflurane Medical Developments MD&P** may cause drowsiness or dizziness in some people.

**Methoxyflurane Medical Developments MD&P contains Butylated hydroxytoluene (E321)**

This medicine contains a stabiliser ingredient called butylated hydroxytoluene (E321). Butylated hydroxytoluene may cause local skin reactions (e.g. contact dermatitis), or irritation to the eyes and mucous membranes.

### 3. How to use Methoxyflurane Medical Developments MD&P

Always take this medicine exactly as your healthcare professional has told you. Check with your healthcare professional if you are not sure.

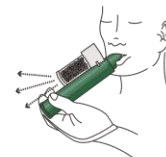
#### Adults and children aged 6 years and older

One or two bottles containing 3 ml of **Methoxyflurane Medical Developments MD&P** can be used per administration. The maximum dose is two bottles containing 3 ml per administration. Do not inhale more than the maximum dose.

The **Methoxyflurane Medical Developments MD&P** Inhaler is designed for use with **Methoxyflurane Medical Developments MD&P** (methoxyflurane) only.

#### How to use Methoxyflurane Medical Developments MD&P

1. Your healthcare professional will prepare the inhaler and place the wrist loop over your wrist.
2. Breathe in through the mouthpiece of the inhaler to obtain pain relief. Your healthcare professional will show you how if you are unsure. Accustom yourself to the fruity smell of the medicine by inhaling gently for the first few breaths. Breathe out through the inhaler. After the first few breaths breathe normally through the inhaler.
3. If you need stronger pain relief, cover the dilutor hole on the transparent chamber with charcoal with your finger during use. Your healthcare professional will show you where the hole is.
4. You do not need to breathe in and out of the inhaler all of the time. Your healthcare professional will encourage you to take breaks from the inhaler as this will make the pain relief last longer.
5. Continue using your inhaler until your healthcare professional tells you to stop, or when you have inhaled the maximum recommended dose.



Do not give this medicine to anyone else, even if they have the same condition as you.

#### If you use more Methoxyflurane Medical Developments MD&P than you should

The healthcare professional giving the **medicine** will be experienced in its use, so it is extremely unlikely that you will be given too much. You should not use more than 2 bottles at one time. If the

maximum dose is exceeded, **Methoxyflurane Medical Developments MD&P** may cause damage to your kidneys. Tell your healthcare professional immediately if you think you may have taken too much of this medicine.

If you have any further questions on the use of this medicine, ask your healthcare professional.

#### **4. Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

##### **Serious side effects**

Tell your healthcare professional immediately if you experience any of the following:

- Serious allergic reaction, symptoms include difficulty breathing and/or swelling of the face
- Liver problems, such as loss of appetite, nausea, vomiting, jaundice (yellowing of the skin and/or eyes), dark coloured urine, pale coloured stools, pain/ache or sensitivity to touch in your right stomach area (below your ribs)
- Kidney problems such as reduced or excessive urination or swelling of feet or lower legs
- Too slow and shallow breathing or other difficulties in breathing (symptoms of respiratory depression) (frequency cannot be estimated from available data).

**The above side effects can be life threatening so tell your healthcare professional immediately.**

##### **Other side effects**

**Very common side effects:** may affect more than 1 in 10 people

- Dizziness

**Common side effects:** may affect up to 1 in 10 people

- Drowsiness
- Headache or Nausea
- Feeling of extreme happiness
- Feeling drunk
- Taste disturbances
- Coughing
- Tiredness

**Uncommon side effects:** may affect up to 1 in 100 people

- Anxiety or depression
- Disturbance in attention
- Inappropriate emotions or actions
- Repetition of words or difficulty in speaking
- Memory loss
- Tingling skin (pins and needles) in the hands or feet
- Numbness
- Vision impairment
- Flushing of the skin
- Low or high blood pressure
- Dry mouth
- Mouth discomfort or itch
- Increased salivation
- Increased appetite
- Vomiting
- Sweating
- Feeling abnormal
- Chills
- Feeling relaxed

- Mood swings
- Agitation
- Disorientation
- Low blood oxygen level

**Not known:** frequency cannot be estimated from the available data

- Hypersensitivity
- Restlessness
- Feeling of being disconnected from reality
- Altered state of consciousness
- Choking
- Shortness of breath
- Uncontrolled eye movements

### **Reporting of side effects**

If you get any side effects, talk to your health care professional. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via HPRAs Pharmacovigilance at [www.hpra.ie](http://www.hpra.ie). By reporting side effects you can help provide more information on the safety of this medicine.

## **5. How to store Methoxyflurane Medical Developments MD&P**

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the carton after EXP. The expiry date refers to the last day of that month.

This medicinal product does not require any special storage conditions.

Your healthcare professional will dispose of any leftover **Methoxyflurane Medical Developments MD&P** liquid and the **Methoxyflurane Medical Developments MD&P** inhaler in the appropriate way.

## **6. Contents of the pack and other information**

### **What Methoxyflurane Medical Developments MD&P contains**

The active substance is Methoxyflurane. Each sealed bottle contains 3 ml methoxyflurane 99.9%. The other ingredient is Butylated hydroxytoluene (E321).

### **What Methoxyflurane Medical Developments MD&P looks like and contents of the pack**

**Methoxyflurane Medical Developments MD&P** is a clear, almost colourless volatile liquid, with a characteristic fruity odour that becomes a vapour or gas when used with the **Methoxyflurane Medical Developments MD&P Inhaler**.

**Methoxyflurane Medical Developments MD&P** is supplied in the following presentations:

- one bottle with a tear off tamper-evident seal (packs of 10), or
- Combination pack with one bottle of 3 ml **Methoxyflurane Medical Developments MD&P**, one **Methoxyflurane Medical Developments MD&P Inhaler** and one Activated Carbon (AC) chamber (packs of 1 or 10).

Not all pack sizes may be marketed.

**Marketing Authorisation Holder**

Medical Developments MD&P Limited, 21 Priory Office Park, Stillorgan Road, Blackrock, Dublin,  
Dublin, A94 F660, Ireland

**Manufacturers**

MIAS Pharma Limited, Suite 1, First Floor, Stafford House, Strand Road, Portmarnock, Co. Dublin,  
D13 WC83, Ireland.

**This leaflet was last revised in 09/2025**

## Information for Healthcare Professionals

The following information is intended for healthcare professionals only:

Instructions on the preparation of the **Methoxyflurane Medical Developments MD&P** inhaler and correct administration are provided in the Figures below.

Before use, check for foreign objects, broken or deteriorated parts. Do not use this device if any are identified.

1. Ensure the Activated Carbon (AC) chamber is inserted into the dilutor hole on the top of the **Methoxyflurane Medical Developments MD&P** inhaler.



2. Remove the cap of the bottle by hand. Alternatively, use the base of the inhaler to loosen the cap with a  $\frac{1}{2}$  turn. Separate the Inhaler from the bottle and remove the cap by hand.



3. Tilt the inhaler to a  $45^\circ$  angle and pour the total contents of one bottle into the base of the Inhaler whilst rotating.



4. Place wrist loop over patient's wrist. Patient inhales through the mouthpiece of inhaler to obtain analgesia. First few breaths should be gentle and then breathe normally through Inhaler.



5. Patient exhales into the inhaler. The exhaled vapour passes through the AC Chamber to adsorb any exhaled methoxyflurane.



6. If stronger analgesia is required, patient can cover dilutor hole on the AC chamber with finger during use.



7. If further pain relief is required, after the first bottle has been used use a second bottle if available. Alternatively use a second bottle from a new combination pack. Use in the same way as the first bottle in step 2 and 3. No need to remove the AC Chamber. Put used bottle into the plastic bag provided.



8. Patient should be instructed to inhale intermittently to achieve adequate analgesia. Continuous inhalation will reduce duration of use. Minimum dose to achieve analgesia should be administered.

9. Replace cap onto bottle. Place used inhaler and used bottle in sealed plastic bag and dispose of responsibly.



**The person trained in administering, Methoxyflurane Medical Developments MD&P must provide and explain the Package Leaflet to the patient.**