

5 April 2016 EMA/HMPC/159075/2014 Committee on Herbal Medicinal Products (HMPC)

# European Union herbal monograph on *Crataegus* spp., folium cum flore

Final

| Discussion in Working Party on European Union monographs and                          | March 2014        |
|---|-------------------|
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|   | July 2014         |
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| Keywords | Herbal medicinal products; HMPC; European Union herbal monographs;            |
|----------|---|
|          | traditional use; Crataegus spp., folium cum flore; Crataegi folium cum flore; |
|          | hawthorn leaf and flower  |

| BG (bulgarski): Глог, лист и цвят            | LT (lietuvių kalba): Gudobelių lapai su žiedais  |
|--|--|
| CS (čeština): hlohový list s květem          | LV (latviešu valoda): Vilkābeļu lapas ar ziediem |
| DA (dansk): Hvidtjørn blad og blomst         | MT (Malti): Werqa u Fjura taż-Żagħrun / ta' I-   |
| DE (Deutsch): Weißdornblätter mit Blüten     | Anżalor  |
| EL (elliniká): φύλλο και άνθος κραταίγου     | NL (Nederlands): Meidoorn                        |
| EN (English): hawthorn leaf and flower       | PL (polski): Kwiatostan głogu                    |
| ES (español): Espino blanco, hoja y flor de  | PT (português): Pirliteiro, folha e flor         |
| ET (eesti keel): viirpuulehed koos õitega    | RO (română): frunză și floare de păducel         |
| FI (suomi): orapihlaja, lehti ja kukka       | SK (slovenčina): List hlohu s kvetom             |
| FR (français): Aubépine (sommité fleurie d') | SL (slovenščina): list in cvet gloga             |
| HR (hrvatska):glogov list sa cvijetom        | SV (svenska): Hagtorn, blad och blomma           |
| HU (magyar): galagonya virágos hajtásvég     | IS (íslenska):                                   |
| IT (italiano): Biancospino foglia e fiore    | NO (norsk): Hagtornblad og -blomst               |
|  |  |

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## European Union herbal monograph on *Crataegus spp.*, folium cum flore

### 1. Name of the medicinal product

To be specified for the individual finished product.

## 2. Qualitative and quantitative composition<sup>1,2</sup>

| Well-established use | Traditional use  |
|----------------------|--|
|                      | With regard to the registration application of<br>Article 16d(1) of Directive 2001/83/EC as<br>amended   |
|                      | <i>Crataegus spp.</i> , folium cum flore (hawthorn leaf and flower)                                      |
|                      | i) Herbal substance  |
|                      | Not applicable.  |
|                      | ii) Herbal preparations  |
|                      | a) Comminuted herbal substance   |
|                      | b) Powdered herbal substance   |
|                      | <ul> <li>c) Dry extract (DER 4-7:1), extraction solvent:<br/>methanol 70% V/V</li> </ul>                 |
|                      | <ul> <li>d) Dry extract (DER 4-7.1:1), extraction solvent:<br/>ethanol 45-70% V/V<sup>3</sup></li> </ul> |
|                      | e) Liquid extract (DER 1:0.9-1.1), extraction solvent: ethanol 45% V/V                                   |
|                      | <ul> <li>f) Liquid extract (DER 1:2), extraction solvent:<br/>ethanol 45% V/V</li> </ul>                 |
|                      | <ul> <li>g) Liquid extract (DER 1:19.2-20), extraction<br/>solvent: sweet wine</li> </ul>                |
|                      | h) Expressed juice from the fresh leaves and flowers (DER 1:0.63-0.9)                                    |
|                      | i) Expressed juice from the fresh leaves and flowers (DER 1:0.9-1.1)                                     |
|                      | <ul> <li>j) Tincture (DER 1:3.5-4.5), extraction solvent:<br/>ethanol 35% V/V</li> </ul>                 |

<sup>&</sup>lt;sup>1</sup> The declaration of the active substance(s) for an individual finished product should be in accordance with relevant herbal quality guidance.

<sup>&</sup>lt;sup>2</sup> The material complies with the Ph. Eur. Monograph (ref.: 1432)

<sup>&</sup>lt;sup>3</sup> The composition of the extraction solvent must be specified in the individual extract.

| Well-established use | Traditional use   |
|----------------------|---|
|                      | <ul> <li>k) Dry extract (DER 4-5:1), extraction solvent:<br/>water</li> </ul> |

## 3. Pharmaceutical form

| Well-established use | Traditional use   |
|----------------------|---|
|                      | Comminuted herbal substance as herbal tea for oral use.                                       |
|                      | Powdered herbal substance in solid dosage forms for oral use.                                 |
|                      | Herbal preparations e) to j) in liquid dosage forms for oral use.                             |
|                      | Herbal preparations c), d) and k) in solid or liquid dosage forms for oral use.               |
|                      | The pharmaceutical form should be described by the European Pharmacopoeia full standard term. |

## 4. Clinical particulars

#### 4.1. Therapeutic indications

| Well-established use | Traditional use  |
|----------------------|--|
|                      | Indication 1)  |
|                      | Traditional herbal medicinal product used to<br>relieve symptoms of temporary nervous cardiac<br>complaints (e.g. palpitations, perceived extra<br>heart beat due to mild anxiety) after serious<br>conditions have been excluded by a medical<br>doctor.<br>Indication 2) |
|                      | Traditional herbal medicinal product for relief of mild symptoms of mental stress and to aid sleep.  |
|                      | The product is a traditional herbal medicinal product for use in specified indications exclusively based upon long-standing use.   |

| Well-established use | Traditional use  |
|----------------------|--|
|                      | Posology   |
|                      | Indication 1)  |
|                      | Adults and elderly   |
|                      | <ul> <li>a) Herbal tea: 1-2 g of the comminuted herbal substance in 150 ml of boiling water as a herbal infusion up to 4 times daily (max. 6 g)</li> <li>b) single dose: 190-350 mg daily dose: 570-1750 mg</li> </ul> |
|                      | c) single dose: 80-300 mg<br>daily dose: 240-900 mg  |
|                      | d) single dose: 80-450 mg<br>daily dose: 240-900 mg  |
|                      | e) single dose: 0.56-1.25 g<br>daily dose: 1.68-3.75 g   |
|                      | f) single dose: 1.84 g<br>daily dose: 5.52 g   |
|                      | g) single dose: 8.24 g<br>daily dose: 16.5 g   |
|                      | h) single dose: 7 ml<br>daily dose: 21 ml  |
|                      | i) single dose: 2.4 ml<br>daily dose: 7.5 ml   |
|                      | j) single dose: 1.68 g<br>daily dose: 5.1 g  |
|                      | The use in children and adolescents under 18 years of age is not recommended (see section 4.4. 'Special warnings and precautions for use').  |
|                      | Indication 2)  |
|                      | Adolescents, adults and elderly  |
|                      | <ul> <li>b) single dose: 190-350 mg<br/>daily dose: 570-1750 mg</li> <li>k) single dose: 250 mg<br/>daily dose: 750–1000 mg</li> </ul>   |
|                      | The use in children under 12 years of age is not recommended (see section 4.4. 'Special warnings   |

### 4.2. Posology and method of administration<sup>4</sup>

<sup>&</sup>lt;sup>4</sup> For guidance on herbal substance/herbal preparation administered as herbal tea or as infusion/decoction/macerate preparation, please refer to the HMPC 'Glossary on herbal teas' (EMA/HMPC/5829/2010 Rev.1).

| Well-established use | Traditional use   |
|----------------------|---|
|                      | and precautions for use').  |
|                      | Duration of use   |
|                      | Indication 1 and 2)   |
|                      | If the symptoms persist longer than 2 weeks<br>during the use of the medicinal product, a doctor<br>or a qualified health care practitioner should be<br>consulted. |
|                      | Method of administration  |
|                      | Oral use.   |

#### 4.3. Contraindications

| Well-established use | Traditional use                           |
|----------------------|---|
|                      | Hypersensitivity to the active substance. |

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

| Well-established use | Traditional use  |
|----------------------|--|
|                      | Indication 1)  |
|                      | The use in children and adolescents under 18 years of age is not recommended because of concerns requiring medical advice.   |
|                      | If the symptoms worsen during the use of the medicinal product, a doctor or a qualified health care practitioner should be consulted.  |
|                      | If the ankles or legs become swollen, when pain<br>occurs in the region of the heart, which may<br>spread out to the arms, upper abdomen or the<br>area around the neck, or in case of respiratory<br>distress (dyspnea), a doctor or a qualified health<br>care practitioner should be consulted immediately. |
|                      | For tinctures and extracts containing ethanol, the<br>appropriate labelling for ethanol, taken from the<br>'Guideline on excipients in the label and package<br>leaflet of medicinal products for human use', must<br>be included.   |
|                      | Indication 2)  |
|                      | The use in children under 12 years of age has not been established due to lack of adequate data.   |
|                      | If the symptoms worsen during the use of the   |

| Well-established use | Traditional use  |
|----------------------|--|
|                      | medicinal product, a doctor or a qualified health care practitioner should be consulted. |

## 4.5. Interactions with other medicinal products and other forms of interaction

| Well-established use | Traditional use |
|----------------------|-----------------|
|                      | None reported.  |

#### 4.6. Fertility, pregnancy and lactation

| Well-established use | Traditional use  |
|----------------------|--|
|                      | Safety during pregnancy and lactation has not<br>been established. In the absence of sufficient<br>data, the use during pregnancy and lactation is<br>not recommended.<br>No fertility data available. |

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

| Well-established use | Traditional use  |
|----------------------|--|
|                      | No studies on the effect on the ability to drive and use machines have been performed. |

#### 4.8. Undesirable effects

| Well-established use | Traditional use   |
|----------------------|---|
|                      | None known.   |
|                      | If adverse reactions occur, a doctor or a qualified health care practitioner should be consulted. |

#### 4.9. Overdose

| Well-established use | Traditional use                        |
|----------------------|--|
|                      | No case of overdose has been reported. |

## 5. Pharmacological properties

#### 5.1. Pharmacodynamic properties

| Well-established use | Traditional use  |
|----------------------|--|
|                      | Not required as per Article 16c(1)(a)(iii) of Directive 2001/83/EC as amended. |

#### 5.2. Pharmacokinetic properties

| Well-established use | Traditional use  |
|----------------------|--|
|                      | Not required as per Article 16c(1)(a)(iii) of Directive 2001/83/EC as amended. |

#### 5.3. Preclinical safety data

| Well-established use | Traditional use                                      |
|----------------------|--|
|                      | Not required as per Article 16c(1)(a)(iii) of        |
|                      | Directive 2001/83/EC as amended, unless              |
|                      | necessary for the safe use of the product.           |
|                      | The dry extract (DER 4-6.6:1, ethanol 45% m/m)       |
|                      | did not reveal any genotoxicity in several tests (in |
|                      | vitro: Ames test, mouse lymphoma assay,              |
|                      | cytogenetic analysis in cultured human               |
|                      | lymphocytes; in vivo: micronucleus test).            |
|                      | Tests on genotoxicity have not been performed for    |
|                      | all the other preparations of the monograph.         |
|                      | Adequate tests on reproductive toxicity have not     |
|                      | been performed.                                      |
|                      | Tests on carcinogenicity have not been performed.    |

## 6. Pharmaceutical particulars

| Well-established use | Traditional use |
|----------------------|-----------------|
|                      | Not applicable. |

## 7. Date of compilation/last revision

5 April 2016