COMMISSION STAFF WORKING DOCUMENT

Basic Substance
whey
SANTE/12354/2015– rev. 1
8 March 2016

Review report for the basic substance whey finalised in the Standing Committee on Plants, Animals, Food and Feed at its meeting on 8 March 2016 in view of the approval of whey as basic substance in accordance with Regulation (EC) No 1107/2009

1. Procedure followed for the evaluation process

This review report has been established as a result of the evaluation of whey made in the context of the assessment of the substance provided for in Article 23 of Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market, with a view to the possible approval of this substance as basic substance.

In accordance with the provisions of Article 23(3) of Regulation (EC) No 1107/2009, the Commission received on 20 April 2015 an application from ITAB, hereafter referred to as the applicant, for the approval of the substance sweet whey as basic substance.

The application and attached information were distributed to the Member States and European Food Safety Authority (EFSA) for comments. The applicant was also allowed to address collated comments and provide further information to complete the application, which was finalised in the new version of September 2015. On that occasion the applicant changed the name of the application to the broader term whey.

In accordance with the provisions of Article 23(4) of Regulation (EC) No 1107/2009 the Commission required scientific assistance on the evaluation of the application to EFSA, who delivered its views on the specific points raised in the commenting phase.

EFSA submitted to the Commission the results of its work in the form of a technical report for whey on 28 October 2015.

The Commission examined the application, the comments by Member States and EFSA and the EFSA Technical report on the substance together with the additional information and comments provided on it by the applicant, before finalising the current draft review report, which was

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1 Does not necessarily represent the views of the Commission.
3 EFSA (European Food Safety Authority), 2015. Technical report on the outcome of the consultation with Member States and EFSA on the basic substance application for sweet whey for use in plant protection as a fungicide on grape vines, tomatoes, cucumbers and zucchini squash. EFSA supporting publication 2015:EN-879. 34 pp.
referred to the Standing Committee on Plants, Animals, Food and Feed for examination. The draft review report was finalised in the meeting of the Standing Committee of 8 March 2016.

The present review report contains the conclusions of the final examination by the Standing Committee. Given the importance of the EFSA technical report, and the comments and clarifications submitted (background document C), all these documents are also considered to be part of this review report.

2. Purposes of this review report

This review report, including the background documents and appendices thereto, has been developed in support of the Commission Implementing Regulation (EU) 2016/560\(^4\) concerning the approval of whey as basic substance under Regulation (EC) No 1107/2009.

The review report will be made available for public consultation by any interested parties.

Without prejudice to the provisions of Regulation (EC) No 178/2002\(^5\), in particular with respect to the responsibility of operators, following the approval of whey as basic substance, operators are responsible for using it for plant protection purposes in conformity with the legal provisions of Regulation (EC) No 1107/2009 and with the conditions established in the sections 4, 5 and Appendixes I and II of this review report.

EFSA will make available to the public all background documents and the final Technical Report of EFSA, as well as the application without the Appendixes and excluding any information for which confidential treatment is justified in accordance with the provisions of Article 63 of Regulation (EC) No 1107/2009.

Products containing exclusively one or more basic substances do not require authorisation in line with derogation set under Article 28 of Regulation (EC) No 1107/2009. As a consequence, no further assessment will be carried out on such products. However, the Commission may review the approval of a basic substance at any time in conformity with the provisions of Article 23(6) of Regulation (EC) No 1107/2009.


The overall conclusion based on the application, including the results of the evaluation carried out with the scientific assistance of EFSA, is that there are clear indications that it may be expected that whey fulfils the criteria of Article 23.

Whey fulfils the criteria of a ‘foodstuff” as defined in Article 2 of Regulation (EC) No 178/2002.

Considering the EFSA conclusions on the basic substance application for whey, the rate of application and the conditions of use which are described in detail in Appendix I and II, it is

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concluded that the use of whey would in principle not lead to concerns for human health. The potential health concern of the use of whey regarding food allergy to lactose is considered addressed by limiting the approved use, as described in Appendix II, to indoor applications until a growth stage at which no fruits are present in the glasshouse. As such the conditions of use are not expected to lead to the presence of residues of concern in food or feed commodities.

Whey does not have an inherent capacity to cause endocrine disrupting (according to the interim criteria in Regulation 1107/2009), neurotoxic or immunotoxic effects and is not predominantly used for plant protection purposes but nevertheless is useful in plant protection in a product consisting of the substance and water. Finally, it is not placed on the market as a plant protection product.

It can be concluded that the substance has neither an immediate or delayed harmful effect on human or animal health nor an unacceptable effect on the environment when used in accordance with the supported uses as described in Appendix II.

In fact, these indications were reached within the framework of the uses which were supported by the applicant and mentioned in the list of uses supported by available data (attached as Appendix II to this review report) and therefore, they are also subject to compliance with the particular conditions and restrictions in sections 4 and 5 of this report.

Extension of the use pattern beyond those described above will require an evaluation at Community level in order to establish whether the proposed extensions of use can still satisfy the requirements of Article 23 of Regulation (EC) No 1107/2009.

4. Identity and biological properties

The main properties of whey are given in Appendix I.

The active substance shall have a purity as food grade.

It has been established that for whey as notified by the applicant, no relevant impurities are considered, on the basis of information currently available, of toxicological, ecotoxicological or environmental concern.

5. Particular conditions to be taken into account in relation to the uses as basic substance of whey

Whey must be identified by the specifications given in Appendix I and must be used in compliance with conditions of supported uses as reported in Appendixes I and II.

The following conditions for use deriving from assessment of the application have to be respected by users:

- Only uses as basic substance being a fungicide are approved.

Use of whey must be in compliance with conditions specified in the Appendixes I and II of this review report.
On the basis of the proposed and supported uses (as listed in Appendix II), no particular issues have been identified.

The identification of whey as food ingredient implies that the Regulation (EC) No 178/2002 on food safety applies.

6. **List of studies to be generated**

No further studies were identified which were at this stage considered necessary.

7. **Updating of this review report**

The information in this report may require to be updated from time to time to take account of technical and scientific developments as well as of the results of the examination of any information referred to the Commission in the framework of Articles 23 of Regulation (EC) No 1107/2009. Any such adaptation will be finalised in the Standing Committee on Plants, Animals, Food and Feed, as appropriate, in connection with any amendment of the approval conditions for whey in Part C of Annex of the Regulation (EC) No 540/2011.

8. **Recommended disclosure of this review report**

Considering the importance of the respect of the approved conditions of use and the fact that a basic substance will be not placed on the market as plant protection product, hence, no further assessment will have to be carried out on it, it is very important to inform not only applicants but also potential users on the existence of this review report.

It is therefore recommended that the competent authorities of Member States will make available such report to the general public and operators by means of their national relevant websites and by any other appropriate form of communication to ensure that the information reaches potential users.
## APPENDIX I

### Identity and biological properties

**WHEY**

<table>
<thead>
<tr>
<th>Common name</th>
<th>Whey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical name (IUPAC)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Name. (CA)</td>
<td>Not available.</td>
</tr>
<tr>
<td>CAS No</td>
<td>92129-90-3</td>
</tr>
<tr>
<td>CIPAC No and EEC No</td>
<td>Not available.</td>
</tr>
<tr>
<td>FAO SPECIFICATION</td>
<td>Not available.</td>
</tr>
<tr>
<td>Purity</td>
<td>CODEX STAN 289-1995</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Relevant impurities</td>
<td>None</td>
</tr>
<tr>
<td>Molecular mass and structural formula</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Mode of Use</td>
<td>Whey as specified above to be used in water solution for application as listed in Appendix II.</td>
</tr>
<tr>
<td>Preparation to be used</td>
<td>Whey to be diluted in compliance with rate of application reported in Appendix II.</td>
</tr>
<tr>
<td>Function of plant protection</td>
<td>Fungicide.</td>
</tr>
</tbody>
</table>
### APPENDIX II
#### WHEY

<table>
<thead>
<tr>
<th>Crop and/or situation</th>
<th>Pests or group of pests controlled</th>
<th>Formulation</th>
<th>Application</th>
<th>Application rate</th>
<th>PHI (days)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cucumber Cucumis Sativus</td>
<td>Powdery mildews: <em>Podosphaera xanthii</em> <em>Golovinomyces/Erysiphe cichoracearum</em> and <em>orontii Sphaerotheca fuliginea</em> <em>Leveillula cucurbitacearum</em></td>
<td>TC 60-80 g/L</td>
<td>Foliar spray*</td>
<td>From three weeks after sowing (9th leaf unfolded on main stem) to 9 or more primary side shoots visible (BBCH 19-49)**</td>
<td>3 - 5</td>
<td>0.6 L to 3 L (0.036 to 0.24 kg a.s.)</td>
</tr>
</tbody>
</table>

* spray when there is sun (preferably morning)
** do not apply when any plant in the greenhouse is at a later growth stage than BBCH 49.

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(a) For crops, the EU and Codex classification (both) should be taken into account; where relevant, the use situation should be described (e.g. fumigation of a structure)
(b) Outdoor or field use (F), greenhouse application (G) or indoor application (I)
(c) *e.g.* pests as biting and sucking insects, soil born insects, foliar fungi, weeds or plant elicitor
(d) *e.g.* wettable powder (WP), emulsifiable concentrate (EC), granule (GR) etc.
(e) GCPF Codes – GIFAP Technical Monograph N° 2, 1989
(f) All abbreviations used must be explained
(g) Method, e.g. high volume spraying, low volume spraying, spreading, dusting, drench
(h) Kind, e.g. overall, broadcast, aerial spraying, row, individual plant, between the plant – type of equipment used must be indicated
(i) g/kg or g/L. Normally the rate should be given for the substance (according to ISO)
(j) Growth stage at last treatment (BBCH Monograph, Growth Stages of Plants, 1997, Blackwell, ISBN 3-8263-3152-4), including where relevant, information on season at time of application
(k) Indicate the minimum and maximum number of applications possible under practical conditions of use
(l) The values should be given in g or kg whatever gives the more manageable number (e.g. 200 kg/ha instead of 200 000 g/ha or 12.5 g/ha instead of 0.0125 kg/ha
(m) PHI - minimum pre-harvest interval