



EUROPEAN COMMISSION  
HEALTH & CONSUMERS DIRECTORATE-GENERAL

Directorate E – Safety of the food chain  
**Unit E.3 - Chemicals, contaminants and pesticides**

6-Benzyladenine  
SANCO/12667/2010 final  
4 January 2011

Review report for the active substance **6-benzyladenine**  
finalised in the Standing Committee on the Food Chain and Animal Health at its meeting on  
23 November 2010  
in view of the inclusion of 6-benzyladenine to Annex I of Directive 91/414/EEC

## **1. Procedure followed for the re-evaluation process**

This review report has been established as a result of the re-evaluation of 6-benzyladenine, made in the context of a new application by the data submitter after the non-inclusion of this substance.

6-Benzyladenine is a substance that was covered by the fourth stage of the work programme for review of existing active substances provided for in Article 8(2) of Directive 91/414/EEC concerning the placing of plant protection products on the market, with a view to the possible inclusion of this substance in Annex I to the Directive.

Article 24(e) of Commission Regulation (EC) No 2229/2004 laying down detailed rules for the implementation of the fourth stage offered the possibility for the notifier to withdraw, under specific conditions, its support for the active substance. All notifiers withdrew their support and 6-benzyladenine was not included through Commission Decision 2008/941/EC<sup>1</sup>.

In accordance with Article 13 of Regulation (EC) No 33/2008, the Fine Agrochemicals and Valent Biosciences Corporation as the sole data submitters presented, on 5 May 2009, a request to the United Kingdom, the rapporteur Member State, for a new application aiming at Annex I inclusion of the substance.

The United Kingdom finalised in October 2009 their examination, in the form of an additional report to the original Draft Assessment Report. This Report was sent to the Commission and the European Food Safety Authority on 27 November 2009 and included a recommendation as to include 6-benzyladenine in Annex I for the supported uses.

The EFSA organised the consultation on the draft assessment report and, in accordance with the provisions of Article 19 of Regulation (EC) No 33/2008, on the additional report by all the Member

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<sup>1</sup> OJ No L 335, 13.12.2008, p. 91.

States as well as by Fine Agrochemicals and Valent Biosciences Corporation, being the sole data submitters, on 1 December 2009 by making it available.

In accordance with the provisions of Article 20 of Regulation (EC) No 33/2008, the Commission asked EFSA to organise a focused consultation of scientific experts from a certain number of Member States, to review the additional report, the draft assessment report and the comments received thereon (peer review) and to deliver its conclusion.

In accordance with the provisions of Article 20 of Regulation (EC) No 33/2008 the EFSA sent to the Commission its conclusion on the risk assessment [Conclusions on the peer review of the pesticide risk assessment of the active substance 6-benzyladenine (issued on 27 August 2010)<sup>2</sup>]. This conclusion refers to background document A (draft assessment report and additional report) and background document B (EFSA peer review report).

In accordance with the provisions of Article 21 of Regulation (EC) No 33/2008, the Commission referred a draft review report to the Standing Committee on the Food Chain and Animal Health, for final examination. The draft review report was finalised in the meeting of the Standing Committee on 23 November 2010.

The present review report contains the conclusions of the final examination by the Standing Committee. Given the importance of the conclusion of the EFSA, and the comments and clarifications submitted after the conclusion of the EFSA (background document C), 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 hereto, has been developed and finalised in support of Commission Directive **2010/1/EU**<sup>3</sup> concerning the inclusion of 6-benzyladenine in Annex I to Directive 91/414/EEC, and to assist the Member States in decisions on individual plant protection products containing 6-benzyladenine they have to take in accordance with the provisions of that Directive, and in particular the provisions of article 4(1) and the uniform principles laid down in Annex VI.

This review report provides also for the evaluation required under Section A.2.(b) of the above mentioned uniform principles, as well as under several specific sections of part B of these principles. In these sections it is provided that Member States, in evaluating applications and granting authorisations, shall take into account the information concerning the active substance in Annex II of the directive, submitted for the purpose of inclusion of the active substance in Annex I, as well as the result of the evaluation of those data.

In accordance with the provisions of Article 22 of Regulation (EC) No 33/2008, this review report will be made available for public consultation by any interested parties.

The information in this review report is, at least partly, based on information which is confidential and/or protected under the provisions of Directive 91/414/EEC. It is therefore recommended that this review report would not be accepted to support any registration outside

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<sup>2</sup> *Conclusion on the peer review of the pesticide risk assessment of the active substance 6-benzyladenine. EFSA Journal 2010; 8(9):. [49 pp.]. doi:10.2903/j.efsa.2010.1716. Available online: [www.efsa.europa.eu](http://www.efsa.europa.eu).*

<sup>3</sup> OJ L 1, 4.1.2011, p. 5–8.

the context of Directive 91/414/EEC, e.g. in third countries, for which the applicant has not demonstrated to have regulatory access to the information on which this review report is based.

### 3. Overall conclusion in the context of Directive 91/414/EEC

The overall conclusion from the evaluation is that it may be expected that plant protection products containing 6-benzyladenine will fulfil the safety requirements laid down in Article 5(1)(a) and (b) of Directive 91/414/EEC. This conclusion is however subject to compliance with the particular requirements in sections 4, 5, 6 and 7 of this report, as well as to the implementation of the provisions of Article 4(1) and the uniform principles laid down in Annex VI of Directive 91/414/EEC, for each 6-benzyladenine containing plant protection product for which Member States will grant or review the authorisation.

Furthermore, these conclusions were reached within the framework of the uses which were proposed and supported by the data submitter and mentioned in the list of uses supported by available data (attached as Appendix II to this review report).

Extension of the use pattern beyond those described above will require an evaluation at Member State level in order to establish whether the proposed extensions of use can satisfy the requirements of Article 4(1) and of the uniform principles laid down in Annex VI of Directive 91/414/EEC.

The following reference values have been finalised as part of this re-evaluation:

|      |                   |
|------|-------------------|
| ADI  | 0.01 mg/kg bw/day |
| ARfD | not necessary     |
| AOEL | 0.03 mg/kg bw/day |

With particular regard to residues, the review has established that the residues arising from the proposed uses, consequent on application consistent with good plant protection practice, have no harmful effects on human or animal health. The Theoretical Maximum Daily Intake (TMDI, UK diet for toddlers) is less than 6 % of the Acceptable Daily Intake (ADI), (calculated according to the EFSA PRIMO model).

Additional intake from water is not expected to give rise to intake problems.

Estimates of acute dietary exposure of adults and children have not been conducted since are not relevant.

The review has identified several acceptable exposure scenarios for operators, workers and bystanders, which require however to be confirmed for each plant protection product in accordance with the relevant sections of the above mentioned uniform principles.

The review has also concluded that under the proposed and supported conditions of use there are no unacceptable effects on the environment, as provided for in Article 4 (1) (b) (iv) and (v) of Directive 91/414/EEC.

### 4. Identity

The main identity of 6-benzyladenine is given in Appendix I.

The active substance shall comply with the minimum purity of 973 g/kg (see appendix I). At the time of the evaluation no FAO specification was allocated.

The review has established that for the active substance notified by the main data submitter none of the manufacturing impurities considered are, on the basis of information currently available, of toxicological or environmental concern.

## **5. Endpoints and related information**

In order to facilitate Member States, in granting or reviewing authorisations, to apply adequately the provisions of Article 4(1) of Directive 91/414/EEC and the uniform principles laid down in Annex VI of that Directive, the most important endpoints were identified during the re-evaluation process. These endpoints are listed in the conclusion of the EFSA, and at section 3 of this report.

## **6. Particular conditions to be taken into account on short term basis by Member States in relation to the granting of authorisations of plant protection products containing 6-benzyladenine**

On the basis of the proposed and supported uses (as listed in Appendix II), the following particular issues have been identified as requiring particular and short term attention from all Member States, in the framework of any authorisations to be granted.

Member States shall pay particular attention to:

the protection of aquatic organisms. Risk mitigation measures such as buffer zones shall be applied, where appropriate.

## **7. List of studies to be generated**

No further studies were identified which were at this stage considered necessary in relation to the inclusion of 6-benzyladenine in Annex I under the current inclusion conditions.

## **8. Information on studies with claimed data protection**

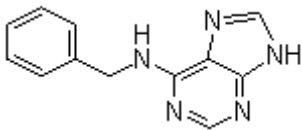
For information of any interested parties, the rapporteur Member State will keep available a document which gives information about the studies for which the data submitter has claimed data protection and which during the re-evaluation process were considered as essential with a view to annex I inclusion. This information is only given to facilitate the operation of the provisions of Article 13 of Directive 91/414/EEC in the Member States. It is based on the best information available but it does not prejudice any rights or obligations of Member States or operators with regard to its uses in the implementation of the provisions of Article 13 of the Directive 91/414/EEC and neither does it commit the Commission.

## **9. Updating of this review report**

The information in this report may require to be updated from time to time in order 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 7, 10 or 11 of Directive 91/414/EEC. Any such adaptation will be finalised in the Standing Committee on the Food

Chain and Animal Health, in connection with any amendment of the inclusion conditions for 6-benzyladenine in Annex I of the Directive.

**APPENDIX I****Identity  
6-BENZYLADENINE**

|  |  |
|--|--|
| <b>Common name (ISO)</b>   | -  |
| <b>Chemical name (IUPAC)</b>   | N <sup>6</sup> -benzyladenine  |
| <b>Chemical name (CA)</b>  | N-(phenylmethyl)-1H-purin-6-amine  |
| <b>CIPAC No</b>  | 829  |
| <b>CAS No</b>  | 1214-39-7  |
| <b>EEC No</b>  | 214-92-7-5   |
| <b>FAO SPECIFICATION</b>   | None   |
| <b>Minimum purity</b>  | 973 g/kg (combined task force specification)   |
| <b>Identity of relevant impurities (of toxicological, ecotoxicological and/or environmental concern)</b> | None   |
| <b>Molecular formula</b>   | C <sub>12</sub> H <sub>11</sub> N <sub>5</sub>                                       |
| <b>Molecular mass</b>  | 225.26 g/mol   |
| <b>Structural formula</b>  |  |

**APPENDIX II**  
**List of uses supported by available data**  
**6-BENZYLADENINE**

| Crop and/or situation   | Member State or Country | Product name | F G or I | Pests or Group of pests controlled               | Formulation |                   | Application       |   |                    |                                     | Application rate per treatment |                    |                  | PHI (days)   | Remarks: |
|-------------------------|-------------------------|--------------|----------|--|-------------|-------------------|-------------------|---|--------------------|-------------------------------------|--------------------------------|--------------------|------------------|--------------|----------|
|                         |                         |              |          |  | Type (d-f)  | Conc. of a.s. (i) | method kind (f-h) | growth stage & season (j)                             | number min max (k) | interval between applications (min) | kg as/hl min max               | water l/ha min max | kg as/ha min max |              |          |
| Maize (seed production) | -                       | MaxCel       | F        | Anti stress and anti freezing (growth regulator) | SC          | 20 g/L            | Spraying          | 6 leaves (BBCH 16) Spring/ Summer                     | 1                  | Not relevant                        | 6                              | 300 L              | 18               | Not relevant |          |
| Apples                  | -                       | MaxCel       | F        | Fruit thinning                                   | SC          | 20g/l             | Spraying          | Fruit between 7 and 15 mm (BBCH 71-74) Spring/ Summer | 1                  | Not relevant                        | 7.5-15                         | 1000 L             | 75-150           | 90           |          |

|                 |     |   |     |  |
|-----------------|-----|---|-----|--|
| <b>Remarks:</b> | *   | For uses where the column "Remarks" is marked in grey further consideration is necessary. Uses should be crossed out when the notifier no longer supports this use(s).  | (h) | Kind, e.g. overall, broadcast, aerial spraying, row, individual plant, between the plants - type of equipment used must be indicated   |
|                 | (a) | For crops, the EU and Codex classifications (both) should be taken into account; where relevant, the use situation should be described (e.g. fumigation of a structure) | (i) | g/kg or g/L. Normally the rate should be given for the active substance (according to ISO) and not for the variant in order to compare the rate for same active substances used in different variants (e.g. fluoroxypyr). In certain cases, where only one variant is synthesised, it is more appropriate to give the rate for the variant (e.g. benthiavalicarb-isopropyl). |
|                 | (b) | Outdoor or field use (F), greenhouse application (G) or indoor application (I)  | (j) | Growth stage at last treatment (BBCH Monograph, Growth Stages of Plants,   |
|                 | (c) | e.g. biting and suckling insects, soil born insects, foliar fungi, weeds  |     | 1997, Blackwell, ISBN 3-8263-3152-4), including where relevant, information on   |
|                 | (d) | e.g. wettable powder (WP), emulsifiable concentrate (EC), granule (GR)  | (k) | season at time of application  |
|                 | (e) | GCPF Codes - GIFAP Technical Monograph No 2, 1989   | (l) | The minimum and maximum number of application possible under practical   |
|                 | (f) | All abbreviations used must be explained  |     | conditions of use must be provided   |
|                 | (g) | Method, e.g. high volume spraying, low volume spraying, spreading, dusting, drench  | (m) | 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)  |