Call for technical data on the permitted food additives acetic acid esters of mono- and diglycerides of fatty acids (E 472a), lactic acid esters of mono- and diglycerides of fatty acids (E 472b), tartaric acid esters of mono- and diglycerides of fatty acids (E 472d), mono- and diacetyltartaric acid esters of mono- and diglycerides of fatty acids (E 472e) and mixed acetic and tartaric acid esters of mono- and diglycerides of fatty acids (E 472f)

Published:19 January 2021Deadline:18 September 2021

#### Background

According to Article 32 of Regulation (EC) No 1333/2008<sup>1</sup>, food additives permitted in the EU before 20 January 2009 should be subject to a new risk assessment by the European Food Safety Authority (EFSA). The programme for the re-evaluation of these permitted food additives has been set up by Commission Regulation (EU) No 257/2010<sup>2</sup>.

So far EFSA has not identified a major safety concern (such as a proven carcinogenic or genotoxic activity) for any of the re-evaluated food additives. In fact, in most cases EFSA confirms the safety of those food additives at their currently reported uses and use levels. However, for some additives EFSA has identified issues that require a follow-up. Additional specific data is needed to address those issues.

The additives whose safety re-evaluation by EFSA was hindered by <u>limited data availability</u>, but which are not expected to pose an immediate food safety concern, are not going to be immediately removed from the Union list of permitted additives, or their uses and/or use levels revised. Instead, business operators are requested to indicate to the Commission their interest in the continuity of approval of the additive(s) under re-evaluation and in providing, by a certain deadline, the data needed by EFSA to complete its risk assessment. In general, new toxicological studies will be needed to generate these missing data.

Once EFSA has assessed the new data, the current authorisation of the additive(s) may be revised, if needed.

If business operators do not provide the requested data (by the predefined deadline) the present authorisation will be revised based on EFSA's current scientific opinion and the additive(s) may be removed from the Union list of permitted additives. The same applies if the new data submitted is not sufficient for EFSA to conclude the risk assessment, since there will be no successive requests for additional data.

Food additives for which EFSA has identified <u>concerns in terms of exposure or specifications</u> will be subject to the same follow-up approach, but EFSA's assessment of the new data may not always be needed.

The Commission will undertake that the time assigned for addressing issues identified by EFSA is as short as possible and dependent on the time needed to generate and assess the required new data.

<sup>&</sup>lt;sup>1</sup> OJ L 354, 31.12.2008, p. 16.

<sup>&</sup>lt;sup>2</sup> OJ L 80, 26.3.2010, p. 19.

## EFSA's Scientific Opinion on the re-evaluation of acetic acid, lactic acid, citric acid, tartaric acid, mono- and diacetyltartaric acid, mixed acetic and tartaric acid esters of mono- and diglycerides of fatty acids (E 472a-f) as food additives

The EFSA Panel on Food Additives and Flavourings (FAF) provided on 11 March 2020 a scientific opinion re-evaluating the safety of acetic acid, lactic acid, citric acid, tartaric acid, mono- and diacetyltartaric acid, mixed acetic and tartaric acid esters of mono- and diglycerides of fatty acids (E 472a-f) as food additives<sup>3</sup>. All these substances had been previously evaluated by the Scientific Committee for Food (SCF) and by the Joint FAO/WHO Expert Committee on Food Additives (JECFA).

Hydrolysis of E472a, b, c and e was demonstrated in various experimental systems, although the available data on absorption, distribution, metabolism, excretion (ADME) were limited. EFSA assumed that E472a-f are extensively hydrolysed in the gastrointestinal tract and/or (pre-) systemically after absorption into their individual hydrolysis products, which are all normal dietary constituents and are metabolised or excreted intact. No adverse effects relevant for humans have EFSA considered that there is no need for a numerical acceptable daily intake (ADI) for E 472a,b,c. EFSA also considered that only L(+)-tartaric acid has to be used in the manufacturing process of E472d, e and f. EFSA established ADIs for E 472d, e and f based on the group ADI of 240 mg/kg body weight (bw) per day, expressed as tartaric acid, for L(+)-tartaric acid-tartrates (E 334-337, 354) and considering the total amount of L(+)-tartaric acid in each food additive.

Exposure estimates were calculated for all food additives individually, except for E 472e and f, using maximum level, refined exposure and food supplements consumers only scenarios. Considering the exposure estimates, there is no safety concern at their reported uses and use levels. In addition, exposure to tartaric acid released from the use of E 472d, e and f was calculated.

EFSA made some recommendations to be considered for possible revision of the EU specifications of these food additives.

#### Overall purpose of this call for data

To give the opportunity to business operators to submit the technical data needed to address issues identified by EFSA in the re-evaluation of the safety of acetic acid esters of mono- and diglycerides of fatty acids (E 472a), lactic acid esters of mono- and diglycerides of fatty acids (E 472b), tartaric acid esters of mono- and diglycerides of fatty acids (E 472c), mono- and diglycerides of mono- and diglycerides of fatty acids (E 472c) and mixed acetic and tartaric acid esters of mono- and diglycerides of fatty acids (E 472c) as food additives.

The data gaps identified by EFSA for citric acid esters of mono- and diglycerides of fatty acids (E 472c) will be the subject of a call for data issued by EFSA, in the context of its upcoming risk assessment of E 472c for uses in food for young infants. Therefore, specific data requirements for all uses of E 472c are included in that call for data.

#### Technical data required

With reference to the conclusions and recommendations in the Scientific Opinion on the re-evaluation of acetic acid, lactic acid, tartaric acid, mono- and diacetyltartaric acid, mixed acetic and tartaric acid esters of mono- and diglycerides of fatty acids (E 472a, b, d, e and f) as food additives by EFSA, information is sought on:

#### 1. Information related to the specifications

<sup>&</sup>lt;sup>3</sup> EFSA Journal 2020;18(3):6030 (<u>https://www.efsa.europa.eu/en/efsajournal/pub/6032</u>)

- 1.1 For tartaric acid esters of mono- and diglycerides of fatty acids (E 472d), mono- and diacetyltartaric acid esters of mono- and diglycerides of fatty acids (E 472e) and mixed acetic and tartaric acid esters of mono- and diglycerides of fatty acids (E 472f):
  - Information on all manufacturing processes used for the production of these food additives;
  - In case L(+)-tartaric from chemical/microbiological synthesis is used for the production of any of these food additives, information on levels of heavy metals (e.g. vanadium, molybdenum or tungsten) resulting from the use of any catalyst should also be provided (as requested in the call for data on L(+)-tartaric acid (E 334) (see <a href="https://ec.europa.eu/food/safety/food\_improvement\_agents/additives/re-evaluation\_en">https://ec.europa.eu/food/safety/food\_improvement\_agents/additives/re-evaluation\_en</a>);
  - Analytical data, supported by certificate of analysis, on current levels of oxalates in commercial samples of E 472d, e and f;
  - Data on the lowest technologically achievable level for oxalates in E 472d, e and f, in order to adequately define a maximum limit in the specifications for these food additives.
- 1.2 For acetic acid esters of mono- and diglycerides of fatty acids (E 472a), lactic acid esters of mono- and diglycerides of fatty acids (E 472b), tartaric acid esters of mono- and diglycerides of fatty acids (E 472d), mono- and diacetyltartaric acid esters of mono- and diglycerides of fatty acids (E 472e) and mixed acetic and tartaric acid esters of mono- and diglycerides of fatty acids (E 472f):
  - Analytical data, if possible supported by certificate of analysis, on current levels of arsenic, lead and mercury in commercial samples of these food additives;
  - The lowest technologically achievable level for arsenic, lead and mercury and cadmium in order to adequately define maximum limits in the specifications for these food additives;
  - analytical data, if possible supported by certificate of analysis, on current levels of impurities of toxicological concern (e.g. butanetriols, acrolein, chlorinated compounds and 3monochloropropane-1,2-diol) as identified in the EU specifications for the food additive glycerol (E 422), which can be used in the manufacturing process of E 472a, b, d, e and f, in commercial samples of these food additives;
  - the lowest technologically achievable level for impurities of toxicological concern (e.g. butanetriols, acrolein, chlorinated compounds and 3-monochloropropane-1,2-diol) in order to adequately define their maximum limits in the specifications for E 472a, b, d, e and f;
  - analytical data, if possible supported by certificate of analysis, on current levels of any impurity
    present in glycerol as mentioned in the call for data on glycerol (E 422)<sup>4</sup>, which can be used
    in the manufacturing process of E 472a, b, d, e and f, in commercial samples of these food
    additives;
  - the lowest technologically achievable level for any impurity which could be formed during the manufacturing processes of glycerol and be present in E 472a, b, d, e and f, in order to adequately define their maximum limits in their specifications;
  - Analytical data, if possible supported by certificate of analysis, on current levels of *trans*-fatty acids in commercial samples of E 472a, b, d, e and f;
  - the lowest technologically achievable level for *trans*-fatty acids in E 472a, b, d, e and f in order to adequately define a maximum limit in the specifications for these food additives;

<sup>&</sup>lt;sup>4</sup> <u>https://ec.europa.eu/food/sites/food/files/safety/docs/fs\_food-improvement-agents\_reeval\_call\_20181123\_e422\_data.pdf</u>

- Analytical data, if possible supported by certificate of analysis, on current levels of erucic acid in commercial samples of E 472a, b, d, e and f;
- the lowest technologically achievable level for erucic acid in E 472a, b, d, e and f in order to adequately define a maximum limit in the specifications for these food additives;
- Analytical data, if possible supported by certificate of analysis, on current levels of any compound of toxicological concern (e.g. 3-MCPD or glycidyl esters), which can be produced under certain processing conditions from the food additives E 472a, b, d, e and f;
- the lowest technologically achievable level of any compound of toxicological concern (e.g. 3-MCPD or glycidyl esters), which can be produced under certain processing conditions from the food additives E 472a, b, d, e and f.

The analyses should be performed in independently produced batches of the food additives, with appropriate analytical methods applying state of the art techniques. Specific data on the methods of analysis used should be provided. These include, but are not limited to, e.g. the principle of the method, the scope of the method (i.e. the range of sample types that the method is used for), the concentration units used to express the analytical result(s), validation of the method (in particular limit of detection (LOD) and (LOQ).

# 2. Data on uses/use levels of the food additives tartaric acid esters of mono- and diglycerides of fatty acids (E 472d), mono- and diacetyltartaric acid esters of mono- and diglycerides of fatty acids (E 472e) and mixed acetic and tartaric acid esters of mono- and diglycerides of fatty acids (E 472f)

Since EFSA has established a numerical Acceptable Daily Intake (ADI) for the food additives E 472d, e and f, numerical maximum use levels should be defined for all their permited uses. Therefore, all current authorisations at *quantum satis* should be revised.

#### 2.1 Uses in accordance with Annex II, Part E of Regulation (EC) No 1333/2008

E 472d, e and f are included in the Group I of food additives and they are therefore authorised in the 66 food categories in which the use of Group I of food additives is permitted. In addition, there is a specific authorisation for E 472d, e and f in food category 7.1.1 (Bread prepared solely with the following ingredients: wheat flour, water, yeast or leaven, salt).

For all the food categories in which E 472d, e and f are permitted in accordance with Annex II, Part E of Regulation (EC) No 1333/2008, food business operators are requested to provide:

- data on normal and maximum use levels of E 472d, e and f in each food category. A numerical
  maximum level needs to be provided (the *quantum satis* principle should not be applied for
  these food additives). For dried and/or concentrated foods which need to be reconstituted, the
  level provided shall apply to the food as reconstituted according to the instructions on the label
  taking into account the minimum dilution factor;
- information on whether the reported use and use levels concern all different foodstuffs belonging to a food category or only certain foodstuffs (to potentially allow the definition of appropriate restrictions/exceptions of use in Annex II, Part E of Regulation (EC) No 1333/2008).

Data on use levels of E 472d, e and f in the food categories in which these food additives are currently permitted should be reported using the attached template developed for this purpose (MS Excel® file "Data on use of E 472d, e and f in accordance with Annex II, Part E, of Regulation (EC) No 1333-2008.xls"), following the instructions provided in the template.



If no data are provided for a food category in which the intentional addition of E 472d, e and f as food additives is currently authorised, it will be considered that there is no interest that the use of E 472d, e and/or f as food additives remains authorised in that food category. Consequently, the authorisation for the use of E 472d, e and/or f as food additives in that food category will be withdrawn.

Therefore, if an interested party has information that E 472d, e and/or f are not used in one or several food categories in which they are currently authorised, this information should also be provided. Such information will be of course cross-checked with information sent by all interested parties replying to the call.

#### <u>2.2</u> Uses in accordance with Annex III, Part 2, 3, 4 and Section A of Part 5 of Regulation (EC) No 1333/2008

E 472d, e and f are also authorised according to Annex III of Regulation (EC) No 1333/2008 as follows:

- as food additives in food additives having a function of carrier in colours and fat-soluble antioxidants with a maximum level in the preparations/final food at *quantum satis* (Annex III, Part 1) (only E 472e).
- as food additives in food additives having a function other than a carrier with a maximum level in the preparations/final food at *quantum satis* (Annex III, Part 2).
- as food additives in food enzymes with a maximum level in the preparations/final food at *quantum satis* (Annex III, Part 3).
- as food additives including carriers in all food flavourings with a maximum level in the preparations/final food at *quantum satis* (Annex III, Part 4).
- as food additives in all nutrients except nutrients intended to be used in foodstuffs for infants and young children, with a maximum level in the nutrient preparations/final food at *quantum satis* (Annex III, Part 5, Section A).

For all the uses for which E 472d, e and f are permitted in accordance with Annex III of Regulation (EC) No 1333/2008, food business operators are requested to provide:

- data on maximum use levels of E 472d, e and f in the preparation as well as in the final food, A numerical maximum level needs to be provided (the *quantum satis* principle should not be applied for these food additives);
- information on whether the reported use concerns all preparations or only certain preparations (when appropriate).

Data on use levels of E 472d, e and f in accordance with Annex III of Regulation (EC) No 1333-2008 should be reported using the attached template developed for this purpose (MS Excel® file "Data on use of E 472d, e and f in accordance with Annex III of Regulation (EC) No 1333-2008.xls"), following the instructions provided in the template.



Data on use of E 472 d, e and f in accorda

If no data are provided for a currently authorised use of E 472d, e and f as food additives in accordance with Annex III, Part 1, 2, 3, 4 or 5, it will be considered that there is no interest that that use remains authorised. Consequently, that authorisation for the use E 472d, e and f as food additives in that food category will be withdrawn.

Therefore, if an interested party has information that E 472d, e and f are not used in accordance with Annex III, Part 1, 2, 3, 4 or 5, this information should also be provided. Such information will be of course cross-checked with information sent by all interested parties replying to the call.

#### Procedure of the call for data

It should be noted that this call concerns only technical data. Therefore, the 2-step procedure used in previous calls for scientific and technical data is not followed, since such procedure is considered to be more appropriate for calls for data requesting scientific data (e.g. toxicological data which require that new toxicological studies are performed). Therefore, the deadline of this call is the final deadline for submission of the requested technical data.

Business operators are requested to submit to the Commission **18 September 2021** the above-requested data.

In order to streamline the data collection exercise, business operators are invited to liaise with the relevant food business operator associations for the data submission. In particular, data providers shall ensure that the same data are not sent several times to the European Commission (for example, they should not be sent by both the business operator and also by the association to which the business operator belongs to).

Any questions about this call for data should be sent to the email address <u>Sante-E2-Additives@ec.europa.eu</u>.

#### Submission of the required data

Business operators are requested to submit the above-indicated data by the agreed deadline using the online platform CIRCABC. The "Guidance for online data submission on Food Improvement Agents via CIRCABC Sante-Cad-In Group"<sup>5</sup> provides practical information on how to use the CIRCABC platform for the online submissions.

Common electronic formats (e.g. MS Office®, Adobe Acrobat Reader®) allowing content copying and printing (no content copy protection) should be used for the files to be submitted. The text of the files should be searchable using the search facilities of standard software packages. The submission should include a cover letter stating clearly in the subject line the food additive(s) to which it refers, and describing the data submitted. The cover letter should provide the contact details of the data submitter and should be addressed to:

Bruno Gautrais, Head of Unit E2 European Commission Directorate-General for Health and Food Safety Directorate E – Food and feed safety, Innovation Unit E2 – Food Processing Technologies and Novel Foods B-1049 Brussels

This cover letter should also be sent separately to the functional mailbox <u>SANTE-E2-</u><u>Additives@ec.europa.eu</u>.

Once the new data are received, they will be submitted to EFSA for evaluation and preparation of a scientific opinion, if appropriate.

#### **Confidential data**

<sup>&</sup>lt;sup>5</sup> <u>https://ec.europa.eu/food/sites/food/files/safety/docs/fs\_food-improvement-agents\_guidance\_circabc\_data-sub.pdf</u>

According to article 8 of Regulation (EU) No 257/2010 setting up a re-evaluation programme of approved food additives, confidential treatment may be given to information the disclosure of which might significantly harm the competitive position of business operators or other interested parties.

Therefore, the business operators and/or the interested parties should indicate in detail which of the information provided they wish to be treated as confidential and they should provide verifiable justification supporting this request. It should be noted that the information described in article 8(2) of the Regulation (EU) No 257/2010 shall not, in any circumstances, be regarded as confidential.

In application of Article 8(4) of Regulation (EU) 257/2010, following a proposal from EFSA, the Commission will decide after consulting the interested business operator and/or the other interested parties, which information may remain confidential.

### Possibility for EFSA to use the data for the safety assessment of the same substance under other legal or regulatory frameworks

In line with Union policy objectives on animal welfare and testing on vertebrates, EFSA aims to avoid the duplication of testing on vertebrates, and to achieve an optimal use of the relevant financial and human resources by the private sector. Therefore, in anticipation of cases where EFSA may be interested in using or reusing relevant information or data (i.e. technical, toxicological data) for the evaluation of the same substance under a different legal or regulatory framework from the one mentioned above, or for the evaluation of another substance under the same or different legal framework as above, please indicate explicitly in writing, whether by participating in the voluntary submission of relevant data or information, you also give EFSA the permission to use and/or reuse these data for other EFSA safety assessments, and/or for a data sharing exercise with third parties or other international bodies.