

**▼B**

## ANNEX I

**▼M2****Fertilizers, soil conditioners and nutrients referred to in Article 3(1) and Article 6d(2)****▼B***Note:*

A: authorised under Regulation (EEC) No 2092/91 and carried over by Article 16(3)(c) of Regulation (EC) No 834/2007

B: authorised under Regulation (EC) No 834/2007

**▼M2**

| Authorisation | Name<br>Compound products or products<br>containing only materials listed<br>hereunder | Description, compositional requirements, conditions<br>for use   |
|---------------|--|--|
| A             | Farmyard manure  | Products comprising a mixture of animal excrements and vegetable matter (animal bedding)<br>Factory farming origin forbidden |

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|   |  |   |
|---|--|---|
| A | Dried farmyard manure and dehydrated poultry manure  | Factory farming origin forbidden  |
| A | Composted animal excrements, including poultry manure and composted farmyard manure included | Factory farming origin forbidden  |
| A | Liquid animal excrements   | Use after controlled fermentation and/or appropriate dilution<br>Factory farming origin forbidden |

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|   |   |  |
|---|---|--|
| B | Composted or fermented mixture of household waste | Product obtained from source separated household waste, which has been submitted to composting or to anaerobic fermentation for biogas production<br>Only vegetable and animal household waste<br>Only when produced in a closed and monitored collection system, accepted by the Member State<br>Maximum concentrations in mg/kg of dry matter:<br>cadmium: 0,7; copper: 70; nickel: 25; lead: 45; zinc: 200; mercury: 0,4; chromium (total): 70; chromium (VI): not detectable |
|---|---|--|

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|   |   |  |
|---|---|--|
| A | Peat  | Use limited to horticulture (market gardening, floriculture, arboriculture, nursery) |
| A | Mushroom culture wastes                     | The initial composition of the substrate shall be limited to products of this Annex  |
| A | Dejecta of worms (vermicompost) and insects |  |
| A | Guano                                       |  |

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| Authorisation | Name<br>Compound products or products<br>containing only materials listed<br>hereunder | Description, compositional requirements, conditions<br>for use  |
|---------------|--|---|
| A             | Composted or fermented mixture<br>of vegetable matter                                  | Product obtained from mixtures of vegetable<br>matter, which have been submitted to<br>composting or to anaerobic fermentation for<br>biogas production |

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|   |  |  |
|---|--|--|
| B | Biogas digestate containing<br>animal by-products co-digested<br>with material of plant or animal<br>origin as listed in this Annex  | Animal by-products (including by-products of<br>wild animals) of category 3 and digestive tract<br>content of category 2 (categories 2 and 3 as<br>defined in Regulation (EC) No 1069/2009 of<br>the European Parliament and of the<br>Council) <sup>(2)</sup> must not be from factory<br>farming origin.<br><br>The Processes have to be in accordance<br>with Commission Regulation (EU)<br>No 142/2011 <sup>(3)</sup> .<br><br>Not to be applied to edible parts of the crop |
| B | Products or by-products of animal<br>origin as below:<br>Blood meal<br>Hoof meal<br>Horn meal<br>Bone meal or degelatinised bone<br>meal<br>Fish meal<br>Meat meal<br>Feather, hair and 'chiquette' meal<br>Wool<br>Fur (1)<br>Hair<br>Dairy products<br>Hydrolysed proteins (2) | (1) Maximum concentration in mg/kg of dry<br>matter of chromium (VI): not detectable<br><br>(2) Not to be applied to edible parts of the<br>crop   |

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|   |   |   |
|---|---|---|
| A | Products and by-products of plant<br>origin for fertilisers | Examples: oilseed cake meal, cocoa husks,<br>malt culms   |
| A | Seaweeds and seaweed products                               | As far as directly obtained by:<br>(i) physical processes including dehydration,<br>freezing and grinding<br>(ii) extraction with water or aqueous acid<br>and/or alkaline solution<br>(iii) fermentation |
| A | Sawdust and wood chips                                      | Wood not chemically treated after felling   |
| A | Composted bark  | Wood not chemically treated after felling   |
| A | Wood ash  | From wood not chemically treated after felling  |

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| Authorisation | Name<br>Compound products or products<br>containing only materials listed<br>hereunder                  | Description, compositional requirements, conditions<br>for use   |
|---------------|---|--|
| A             | Soft ground rock phosphate  | Product as specified in point 7 of Annex IA.2.<br>to Regulation (EC) No 2003/2003 of the<br>European Parliament and of the Council (1)<br>relating to fertilisers, 7<br>Cadmium content less than or equal to<br>90 mg/kg of P <sub>2</sub> O <sub>5</sub> |
| A             | Aluminium-calcium phosphate   | Product as specified in point 6 of Annex IA.2.<br>of Regulation 2003/2003,<br>Cadmium content less than or equal to<br>90 mg/kg of P <sub>2</sub> O <sub>5</sub><br>Use limited to basic soils (pH > 7,5)  |
| A             | Basic slag  | Products as specified in point 1 of Annex<br>IA.2. of Regulation 2003/2003   |
| A             | Crude potassium salt or kainit  | Products as specified in point 1 of Annex<br>IA.3. of Regulation 2003/2003   |
| A             | Potassium sulphate, possibly<br>containing magnesium salt   | Product obtained from crude potassium salt by<br>a physical extraction process, containing<br>possibly also magnesium salts  |
| A             | Stillage and stillage extract   | Ammonium stillage excluded   |
| A             | Calcium carbonate<br>(chalk, marl, ground limestone,<br>Breton ameliorant, (maerl),<br>phosphate chalk) | Only of natural origin   |
| A             | Magnesium and calcium<br>carbonate  | Only of natural origin<br>e.g. magnesian chalk, ground magnesium,<br>limestone   |
| A             | Magnesium sulphate (kieserite)  | Only of natural origin   |
| A             | Calcium chloride solution   | Foliar treatment of apple trees, after identifi-<br>cation of deficit of calcium   |
| A             | Calcium sulphate (gypsum)   | Products as specified in point 1 of Annex ID.<br>of Regulation 2003/2003<br>Only of natural origin   |
| A             | Industrial lime from sugar<br>production  | By-product of sugar production from sugar<br>beet  |
| A             | Industrial lime from vacuum salt<br>production  | By-product of the vacuum salt production<br>from brine found in mountains  |
| A             | Elemental sulphur   | Products as specified in Annex ID.3 of Regu-<br>lation 2003/2003   |
| A             | Trace elements  | Inorganic micronutrients listed in part E of<br>Annex I to Regulation 2003/2003  |

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| Authorisation | Name<br>Compound products or products<br>containing only materials listed<br>hereunder | Description, compositional requirements, conditions<br>for use |
|---------------|--|--|
| A             | Sodium chloride  | Only mined salt  |
| A             | Stone meal and clays   |  |

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|   |  |   |
|---|--|---|
| B | Leonardite (Raw organic sediment rich in humic acids)  | Only if obtained as a by-product of mining activities   |
| B | Chitin (Polysaccharide obtained from the shell of crustaceans)                                 | Only if obtained from sustainable fisheries, as defined in Article 3(e) of Council Regulation (EC) No 2371/2002 <sup>(4)</sup> or organic aquaculture   |
| B | Organic rich sediment from fresh water bodies formed under exclusion of oxygen (e.g. sapropel) | Only organic sediments that are by-products of fresh water body management or extracted from former freshwater areas<br>When applicable, extraction should be done in a way to cause minimal impact on the aquatic system<br>Only sediments derived from sources free from contaminations of pesticides, persistent organic pollutants and petrol like substances<br>Maximum concentrations in mg/kg of dry matter:<br>cadmium: 0,7; copper: 70; nickel: 25; lead: 45; zinc: 200; mercury: 0,4; chromium (total): 70; chromium (VI): not detectable |

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<sup>(1)</sup> OJ L 304, 21.11.2003, p. 1.

► **M13** <sup>(2)</sup> Regulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by-products Regulation) (OJ L 300, 14.11.2009, p. 1).

<sup>(3)</sup> Commission Regulation (EU) No 142/2011 of 25 February 2011 implementing Regulation (EC) No 1069/2009 of the European Parliament and of the Council laying down health rules as regards animal by-products and derived products not intended for human consumption and implementing Council Directive 97/78/EC as regards certain samples and items exempt from veterinary checks at the border under that Directive (OJ L 54, 26.2.2011, p. 1). ◀

► **M13** <sup>(4)</sup> Council Regulation (EC) No 2371/2002 of 20 December 2002 on the conservation and sustainable exploitation of fisheries resources under the Common Fisheries Policy (OJ L 358, 31.12.2012, p. 59). ◀

## ANNEX I

## ANNEX II

**Pesticides — Products referred to in Article 5(1)**

All the substances listed in this Annex have to comply at least with the conditions for use as specified in the Annex to Commission Implementing Regulation (EU) No 540/2011 <sup>(1)</sup>. More restrictive conditions for use for organic production are specified in the second column of each table.

**1. Substances of plant or animal origin**

| Name  | Description, compositional requirement, conditions for use   |
|---|--|
| Azadirachtin extracted from <i>Azadirachta indica</i> (Neem tree) |  |
| Basic substances  | Only those basic substances within the meaning of Article 23(1) of Regulation (EC) No 1107/2009 of the European Parliament and of the Council <sup>(1)</sup> that are covered by the definition of “foodstuff” in Article 2 of Regulation (EC) No 178/2002 of the European Parliament and of the Council <sup>(2)</sup> and have plant or animal origin.<br><br>Substances not to be used as herbicides, but only for the control of pests and diseases. |
| Beeswax   | Only as pruning agent/wound protectant.  |
| Hydrolysed proteins excluding gelatine                            |  |
| Laminarin   | Kelp shall be either grown organically in accordance with Article 6d or harvested in a sustainable way in accordance with Article 6c.  |
| Pheromones  | Only in traps and dispensers.  |
| Plant oils  | All uses authorised, except herbicide.   |
| Pyrethrins extracted from <i>Chrysanthemum cinerariaefolium</i>   |  |
| Pyrethroids (only deltamethrin or lambda-cyhalothrin)             | Only in traps with specific attractants; only against <i>Bactrocera oleae</i> and <i>Ceratitis capitata</i> Wied.  |
| Quassia extracted from <i>Quassia amara</i>                       | Only as insecticide, repellent.  |
| Repellents by smell of animal or plant origin/sheep fat           | Only on non-edible parts of the crop and where crop material is not ingested by sheep or goats.  |

<sup>(1)</sup> Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market (OJ L 309, 24.11.2009, p. 1).

<sup>(2)</sup> Regulation (EC) No 178/2002 of the European Parliament and of the Council of 28 January 2002 laying down the general principles and requirements of food law, establishing the European Food Safety Authority and laying down procedures in matters of food safety (OJ L 31, 1.2.2002, p. 1).

<sup>(1)</sup> Commission Implementing Regulation (EU) No 540/2011 of 25 May 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards the list of approved active substances (OJ L 153, 11.6.2011, p. 1).

## 2. Micro-organisms or substances produced by micro-organisms

| Name            | Description, compositional requirement, conditions for use |
|-----------------|--|
| Micro-organisms | Not from GMO origin.                                       |
| Spinosad        |  |

## 3. Substances other than those mentioned in Sections 1 and 2

| Name  | Description, compositional requirement, conditions or restrictions to use   |
|---|---|
| Aluminium silicate (Kaolin)   |   |
| Calcium hydroxide   | When used as fungicide, only in fruit trees, including nurseries, to control <i>Nectria galligena</i> .   |
| Carbon dioxide  |   |
| Copper compounds in the form of: copper hydroxide, copper oxychloride, copper oxide, Bordeaux mixture, and tribasic copper sulphate | Up to 6 kg copper per ha per year.<br><br>For perennial crops, by way of derogation from the first paragraph, Member States may provide that the 6 kg copper limit can be exceeded in a given year provided that the average quantity actually used over a 5-year period consisting of that year and of the 4 preceding years does not exceed 6 kg. |
| Ethylene  |   |
| Fatty acids   | All uses authorised, except herbicide.  |
| Ferric phosphate (iron (III) orthophosphate)  | Preparations to be surface-spread between cultivated plants.'   |
| Kieselgur (diatomaceous earth)  |   |
| Lime sulphur (calcium polysulphide)   |   |
| Paraffin oil  |   |
| Potassium hydrogen carbonate (aka potassium bicarbonate)  |   |
| Quartz sand   |   |
| Sulphur   |   |

## ANNEX III

Annex VIII to Regulation (EC) No 889/2008 is amended as follows.

(1) The note above the title of Section A, the note below the title of Section B and the first column of the tables in Sections A and B with the heading 'Authorisation' are deleted.

(2) Section A is amended as follows:

(a) the rows relating to sulphur dioxide, potassium metabisulphite, tocopherol-rich extract, lecithins, citric acid, sodium citrate, tartaric acid, glycerol, sodium carbonate, silicon dioxide, sodium hydroxide are replaced by the following rows:

|           |   |   |                   |  |
|-----------|---|---|-------------------|--|
| E 220     | Sulphur dioxide                           | X | X (Only for mead) | In fruit wines (*) and mead with and without added sugar):100 mg (**)                |
| E 224     | Potassium metabisulphite                  | X | X (Only for mead) | In fruit wines (*) and mead with and without added sugar):100 mg (**).               |
| E 306 (*) | Tocopherol-rich extract                   | X | X                 | Anti-oxidant   |
| E 322 (*) | Lecithins                                 | X | X                 | Milk products (?)<br>Only when derived from organic raw material (***)               |
| E 330     | Citric acid                               | X | X                 |  |
| E 331     | Sodium citrate                            | X | X                 |  |
| E 334     | Tartaric acid (L(+)-)                     | X | X (Only for mead) |  |
| E 422     | Glycerol                                  | X |                   | From plant origin.<br>For plant extracts and flavourings                             |
| E 500     | Sodium carbonate                          | X | X                 |  |
| E 551     | Silicon dioxide gel or colloidal solution | X | X                 | For herbs and spices in dried powdered form<br>Flavourings and propolis              |
| E 524     | Sodium hydroxide                          | X |                   | Surface treatment of "Laugengebäck" and regulation of acidity in organic flavourings |

(\*) In this context, "fruit wine" is defined as wine made from fruits other than grapes (including cider and perry).

(\*\*) Maximum levels available from all sources, expressed as SO<sub>2</sub> in mg/l.

(\*\*\*) As from 1 January 2019.'

(b) the following rows are inserted in the order of the code numbers:

|       |            |   |   |   |
|-------|------------|---|---|---|
| E 418 | Gellan gum | X | X | High-acyl form only   |
| E 901 | Beeswax    | X |   | As a glazing agent for confectionary only.<br>Beeswax from organic beekeeping |

|       |              |   |  |  |
|-------|--------------|---|--|--|
| E 903 | Carnauba wax | X |  | As a glazing agent for confectionary only.<br>Only when derived from organic raw material' |
|-------|--------------|---|--|--|

(c) the following row is added:

|        |            |   |   |  |
|--------|------------|---|---|--|
| 'E 968 | Erythritol | X | X | Only when derived from organic production without using ion exchange technology' |
|--------|------------|---|---|--|

(3) Section B is amended as follows:

(a) the rows relating to sodium carbonate, citric acid, sodium hydroxide, vegetable oils, bentonite, beeswax and carnauba wax are replaced by the following rows:

|                   |   |   |   |
|-------------------|---|---|---|
| 'Sodium carbonate | X | X |   |
| Citric acid       | X | X |   |
| Sodium hydroxide  | X |   | For sugar(s) production.<br>For oil production excluding olive oil production           |
| Vegetable oils    | X | X | Greasing, releasing or anti-foaming agent.<br>Only when derived from organic production |
| Bentonite         | X | X | Sticking agent for mead (!)   |
| Beeswax           | X |   | Releasing agent.<br>Beeswax from organic beekeeping                                     |
| Carnauba wax      | X |   | Releasing agent.<br>Only when derived from organic raw material'                        |

(b) the row relating to kaolin is deleted;

(c) the following rows are added:

|                       |   |   |   |
|-----------------------|---|---|---|
| 'Acetic acid/vinegar  |   | X | Only when derived from organic production.<br>For fish processing, only from biotechnological source, except if produced by or from GMO   |
| Thiamin hydrochloride | X | X | Only for use in processing of fruit wines, including cider and perry and mead   |
| Diammonium phosphate  | X | X | Only for use in processing of fruit wines, including cider and perry and mead   |
| Wood fibre            | X | X | The source of timber should be restricted to certified, sustainably harvested wood.<br>Wood used must not contain toxic components (post-harvest treatment, naturally occurring toxins or toxins from micro-organisms)' |



(4) In Section C, the rows relating to potato starch and vegetable oils are replaced by the following rows:

|                |   |   |   |
|----------------|---|---|---|
| Potato starch  | X | X | For filtering<br>Only when derived from organic production                              |
| Vegetable oils | X | X | Greasing, releasing or anti-foaming agent<br>Only when derived from organic production' |



*ANNEX IX*

**Ingredients of agricultural origin which have not been produced organically referred to in Article 28**

1. UNPROCESSED VEGETABLE PRODUCTS AS WELL AS PRODUCTS DERIVED THEREFROM BY PROCESSES

1.1. **Edible fruits, nuts and seeds:**

|                             |                          |
|-----------------------------|--------------------------|
| — acorns                    | <i>Quercus</i> spp.      |
| — cola nuts                 | <i>Cola acuminata</i>    |
| — gooseberries              | <i>Ribes uva-crispa</i>  |
| — maracujas (passion fruit) | <i>Passiflora edulis</i> |
| — raspberries (dried)       | <i>Rubus idaeus</i>      |
| — red currants (dried)      | <i>Ribes rubrum</i>      |

1.2. **Edible spices and herbs:**

|                     |                              |
|---------------------|------------------------------|
| — pepper (Peruvian) | <i>Schinus molle</i> L.      |
| — horseradish seeds | <i>Armoracia rusticana</i>   |
| — lesser galanga    | <i>Alpinia officinarum</i>   |
| — safflower flowers | <i>Carthamus tinctorius</i>  |
| — watercress herb   | <i>Nasturtium officinale</i> |

1.3. **Miscellaneous:**

Algae, including seaweed, permitted in non-organic foodstuffs preparation

2. VEGETABLE PRODUCTS

2.1. **Fats and oils whether or not refined, but not chemically modified, derived from plants other than:**

|             |                             |
|-------------|-----------------------------|
| — cocoa     | <i>Theobroma cacao</i>      |
| — coconut   | <i>Cocos nucifera</i>       |
| — olive     | <i>Olea europaea</i>        |
| — sunflower | <i>Helianthus annuus</i>    |
| — palm      | <i>Elaeis guineensis</i>    |
| — rape      | <i>Brassica napus, rapa</i> |
| — safflower | <i>Carthamus tinctorius</i> |
| — sesame    | <i>Sesamum indicum</i>      |
| — soya      | <i>Glycine max</i>          |

2.2. **The following sugars, starches and other products from cereals and tubers:**

|  |
|--|
| — fructose   |
| — rice paper   |
| — unleavened bread paper                                   |
| — starch from rice and waxy maize, not chemically modified |

**▼B**2.3. **Miscellaneous:**

- pea protein *Pisum* spp.
- rum, only obtained from cane sugar juice
- kirsch prepared on the basis of fruits and flavourings as referred to in Article 27(1)(c).

## 3. ANIMAL PRODUCTS

aquatic organisms, not originating from aquaculture, and permitted in no-organic foodstuffs preparation

- gelatin
- whey powder '*herasuola*'
- casings

**▼B**

*ANNEX X*

**Species for which organically produced seed or seed potatoes are available in sufficient quantities and for a significant number of varieties in all parts of the Community referred to in Article 45(3)**