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WORKING DOCUMENT

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COMMISSION REGULATION (EU) .../...

of **XXX**

amending Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and the Council and the Annex to Commission Regulation (EU) No 231/2012 as regards the food additives sulphur dioxide (E 220), sodium sulphite (E 221), sodium bisulphite (E 222), sodium metabisulphite (E 223), potassium metabisulphite (E 224), calcium sulphite (E 226), calcium hydrogen sulphite (E 227) and potassium bisulphite (E 228)

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EC) No 1333/2008 of the European Parliament and of the Council of 16 December 2008 on food additives¹, and in particular Article 10(3) and Article 14 thereof,

Having regard to Regulation (EC) No 1331/2008 of the European Parliament and of the Council of 16 December 2008 establishing a common authorisation procedure for food additives, food enzymes and food flavourings², and in particular Article 7(5) thereof,

Whereas:

- (1) Annex II to Regulation (EC) No 1333/2008 lays down a Union list of food additives approved for use in foods and their conditions of use. Annex III to Regulation (EC) No 1333/2008 lays down a Union list of food additives, including carriers, approved for use in food additives, food enzymes, food flavourings, nutrients and their conditions of use.
- (2) Commission Regulation (EU) No 231/2012³ lays down specifications for food additives that are listed in Annex II and III to Regulation (EC) No 1333/2008.

¹ OJ L 354, 31.12.2008, p. 16, ELI: <http://data.europa.eu/eli/reg/2008/1333/2024-04-23>.

² OJ L 354, 31.12.2008, p. 1, ELI: <http://data.europa.eu/eli/reg/2008/1331/2021-03-27>.

³ Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

- (3) Pursuant to Article 3(1) of Regulation (EC) No 1331/2008, the Union list of food additives may be updated either on the initiative of the Commission or following an application.
- (4) Sulphur dioxide (E 220), sodium sulphite (E 221), sodium bisulphite (E 222), sodium metabisulphite (E 223), potassium metabisulphite (E 224), calcium sulphite (E 226), calcium hydrogen sulphite (E 227) and potassium bisulphite (E 228) are food additives authorised in accordance with Regulation (EC) No 1333/2008.
- (5) Article 32(1) of Regulation (EC) No 1333/2008 provides that all food additives that were already permitted in the Union before 20 January 2009 are subject to a new risk assessment by the European Food Safety Authority ('the Authority').
- (6) On 14 April 2016, the Authority issued a scientific opinion on the re-evaluation of sulphur dioxide – sulphites (E 220-228) when used as food additives⁴. The Authority concluded that the current group acceptable daily intake (ADI) of 0,7 mg SO₂ equivalent/kg body weight (bw) per day would remain adequate but should be considered temporary pending the availability of new data required for concluding on their safety. The Authority recommended that additional studies should be performed, and the toxicological database and the temporary group ADI should be re-evaluated. The Authority noted that the recommended studies could require five years for completion. The Authority further concluded that exposure estimates to sulphur dioxide and sulphites were higher than the group ADI of 0,7 mg SO₂ equivalent/kg bw per day for all population groups.
- (7) On 10 October 2016 the Commission launched a public call for scientific and technical data on the permitted food additives sulphur dioxide – sulphites (E 220-228), targeting the data needs identified by the Authority. In February 2020, business operators completed the submission of data in response to the call. However, business operators finally decided not to carry out any new toxicological studies.
- (8) Following the data submission by business operators, the Commission requested the Authority on 29 January 2021 to provide an updated scientific opinion as regards the safety of sulphur dioxide – sulphites (E 220-228). On 24 November 2022, the Authority issued a scientific opinion on the follow-up of the re-evaluation of sulphur dioxide - sulphites (E 220-228)⁵. The Authority considered that the available toxicity data were insufficient to derive an ADI level and withdrew the temporary group ADI. Instead, the Authority calculated margins of exposure (MOEs) to assess the risk for these food additives, taking into account dietary intakes and the dose associated with neurotoxic effects based on evidence from the literature. The Authority concluded that the calculated MOEs raise a safety concern for high consumers of foodstuffs that contain sulphites. The Authority further concluded that the maximum limits in the EU specifications for arsenic, lead and mercury should be lowered and a maximum limit for cadmium should be introduced. The Authority also recommended expressing the maximum limit values for iron and selenium in the EU specifications on the basis of the food additive rather than on the 'SO₂ content' basis and EFSA later confirmed that the same recommendation applies to the limit value for thiosulphate. The Authority further recommended introducing the correct EINECS and/or CAS numbers in the EU specifications and exploring the technological need to maintain calcium sulphite (E

⁴ EFSA Journal 2016;14(4):4438

⁵ EFSA Journal 2022;20(11):7594

226) and calcium hydrogen sulphite (E 227) on the list of authorised food additives, considering the low number of labelled uses and information provided by a business operator.

- (9) With the view to revise the conditions of use of sulphur dioxide – sulphites (E 220-228) aiming to reduce the dietary exposure, the Commission consulted EFSA on 30 September 2024 on the impact of alternative maximum permitted levels on the dietary exposure.
- (10) On 19 November 2025, EFSA published the Technical Report – Update of the dietary exposure to sulphur dioxide - sulphites (E 220-228) with alternative maximum levels when used as food additives⁶. The updated exposure assessment showed that exposure would decrease by implementing the alternative levels, but the resulting MOEs still indicated some safety concerns for high consumers in specific population groups of foodstuffs containing sulphites.
- (11) In light of the Authority’s recommendations and EFSA’s Technical Report, it is therefore appropriate to revise the conditions of use of sulphur dioxide - sulphites (E 220-228) in order to reduce the dietary exposure. It is also appropriate to remove calcium sulphite (E 226) and calcium hydrogen sulphite (E 227) from the list of authorised food additives and to amend the specifications in light of the Authority’s scientific opinion. In particular, in its specifications, the current maximum limits for toxic elements should be reduced and a new maximum limit for cadmium should be laid down in accordance with the scientific opinion of the Authority and taking into account the level which is currently achievable by application of good manufacturing practices.
- (12) Regulations (EC) No 1333/2008 and (EU) No 231/2012 should therefore be amended accordingly.
- (13) Considering that the Authority did not identify an immediate health concern linked to the current specifications for sulphur dioxide – sulphites (E 220-228) and to allow the food business operators, including small and medium enterprises, to adapt to the new more stringent specifications laid down in this Regulation, the application of the new specifications should be deferred and a transitional period should be provided for the use of the food additives sulphur dioxide (E 220), sodium sulphite (E 221), sodium bisulphite (E 222), sodium metabisulphite (E 223), potassium metabisulphite (E 224) and potassium bisulphite (E 228) lawfully placed on the market before the date of application of this Regulation.
- (14) For the same reasons, a transitional period should be provided for foods containing sulphur dioxide (E 220), sodium sulphite (E 221), sodium bisulphite (E 222), sodium metabisulphite (E 223), potassium metabisulphite (E 224) and potassium bisulphite (E 228) that have been lawfully placed on the market before the date of application of this Regulation.
- (15) Considering that the Authority did not identify an immediate health concern linked to the conditions of use of sulphur dioxide – sulphites (E 220-228) which are amended by this Regulation and in order to allow the food business operators, including small and medium enterprises, to adapt to the new conditions of use laid down in this Regulation, the application of those conditions should be deferred by

⁶ EFSA supporting publication 2025: 22(11):EN-9754. doi:[10.2903/sp.efsa.2025.EN-9754](https://doi.org/10.2903/sp.efsa.2025.EN-9754).

six months and a transitional period should be provided for food lawfully placed on the market before the date of application of this Regulation.

- (16) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

HAS ADOPTED THIS REGULATION:

Article 1

Annex II, Part B and C, and Annex III to Regulation (EU) No 1333/2008 are amended in accordance with Annex I to this Regulation.

Article 2

Annex II, Part E to Regulation (EU) No 1333/2008 is amended in accordance with Annex II to this Regulation.

Article 3

The Annex to Regulation (EU) No 231/2012 is amended in accordance with Annex III to this Regulation.

Article 4

1. The food additives sulphur dioxide (E 220), sodium sulphite (E 221), sodium bisulphite (E 222), sodium metabisulphite (E 223), potassium metabisulphite (E 224) and potassium bisulphite (E 228) that have been lawfully placed on the market before[*6 months after the date of entry into force of this Regulation*] may be added to food in accordance with Annexes II and III to Regulation (EC) No 1333/2008 until the exhaustion of stocks.
2. Foods, to which the food additives sulphur dioxide (E 220), sodium sulphite (E 221), sodium bisulphite (E 222), sodium metabisulphite (E 223), potassium metabisulphite (E 224) or potassium bisulphite (E 228) that have been lawfully placed on the market before[*6 months after the date of entry into force of this Regulation*] are added, may be placed on the market until their date of minimum durability or 'use-by date'.
3. Foods, not complying with provisions laid down in Annex II, that have been lawfully placed on the market before[*6 months after the date of entry into force of this Regulation*], may continue to be marketed until their date of minimum durability or 'use-by' date.

Article 5

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

It shall apply from [*6 months after the date of entry into force of this Regulation*], with the exception of Article 1.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, [date],

For the Commission
The President
Ursula VON DER LEYEN

ANNEX I

(1) Annex II to Regulation (EC) No 1333/2008 is **amended as follows**:

(a) In Part B, in Table 3: Additives other than colours and sweeteners, the **entries for the food additives E 226 calcium sulphite and E 227 calcium hydrogen sulphite are deleted**;

(b) Part C, Table 5: Other additives that may be regulated combined, is amended as follows:

(i) Point (g) 'E 220-228: Sulphur dioxide – sulphites' is replaced by the following:

'(g) E 220-228: Sulphur dioxide – sulphites

E-number	Name
E 220	Sulphur dioxide
E 221	Sodium sulphite
E 222	Sodium hydrogen sulphite
E 223	Sodium metabisulphite
E 224	Potassium metabisulphite
E 226	Calcium sulphite
E 227	Calcium hydrogen sulphite
E 228	Potassium hydrogen sulphite'

(2) Annex III to Regulation (EC) No 1333/2008 is amended as follows:

(a) in Part 6 (Definitions of groups of food additives for the purposes of Parts 1 to 5), Table 3 (Table 3: Sulphur dioxide – sulphites) is replaced by the following:

'Table 3

Sulphur dioxide – sulphites

'E-number	Name
E 220	Sulphur dioxide
E 221	Sodium sulphite
E 222	Sodium hydrogen sulphite
E 223	Sodium metabisulphite
E 224	Potassium metabisulphite
E 226	Calcium sulphite
E 227	Calcium hydrogen sulphite
E 228	Potassium hydrogen sulphite'

ANNEX II

Annex II, Part E to Regulation (EC) No 1333/2008 is amended as follows:

1. In category 4.1.1 ('Entire fresh fruit and vegetables'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide – sulphites	10	(3)	only table grapes, fresh lychees (measured on edible parts) and blueberries (<i>Vaccinium corymbosum</i>)
	E 220-228	Sulphur dioxide – sulphites	100	(3)	only vacuum-packed sweetcorn

2. In category 4.1.3 ('Frozen fruit and vegetables'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	50	(3)	only white vegetables including mushrooms and white pulses
	E 220-228	Sulphur dioxide - sulphites	100 50	(3)	only frozen and deep-frozen potatoes

3. In category 4.2.1 ('Dried fruit and vegetables'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	50	(3)	only dried coconut
	E 220-228	Sulphur dioxide – sulphites	50	(3)	only white vegetables, processed, including pulses
	E 220-228	Sulphur dioxide – sulphites	100	(3)	only dried mushrooms
	E 220-228	Sulphur dioxide - sulphites	150	(3)	only dried ginger

	E 220-228	Sulphur dioxide - sulphites	200 150	(3)	only dried tomatoes
	E 220-228	Sulphur dioxide - sulphites	400 200	(3)	only white vegetables, dried, excluding mushrooms and white pulses
	E 220-228	Sulphur dioxide - sulphites	500 150	(3)	only dried fruit and nuts in shell excluding dried mango, pineapple, apples, pears, bananas, apricots, peaches, white grapes, prunes and figs
	E 220-228	Sulphur dioxide - sulphites	300	(3)	only dried mango and pineapple
	E 220-228	Sulphur dioxide - sulphites	600 300	(3)	only dried apples and pears
	E 220-228	Sulphur dioxide - sulphites	1000 300	(3)	only dried bananas
	E 220-228	Sulphur dioxide - sulphites	2000	(3)	only dried apricots, peaches, grapes, prunes, and figs
	E 220-228	Sulphur dioxide - sulphites	1 000	(3)	only dried apricots
	E 220-228	Sulphur dioxide - sulphites	300	(3)	only dried peaches
	E 220-228	Sulphur dioxide - sulphites	800	(3)	only dried white grapes (only golden raisins)

4. In category 4.2.3 ('Canned or bottled fruit and vegetables'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	50	(3)	only white vegetables, including pulses and processed mushrooms
	E 220-228	Sulphur dioxide - sulphites	250	(3)	only bottled, sliced lemon
	E 220-228	Sulphur dioxide - sulphites	100	(3)	only bottled whiteheart cherries; vacuum packed sweetcorn

5. In category 4.2.4.1 ('Fruit and vegetable preparations excluding compote'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	50	(3)	only processed white vegetables and mushrooms
	E 220-228	Sulphur dioxide - sulphites	100	(3)	only rehydrated dried fruit and lychees, mostarda di frutta
	E 220-228	Sulphur dioxide - sulphites	300	(3)	only onion, garlic and shallot pulp preparation
	E 220-228	Sulphur dioxide - sulphites	800	(3)	only horseradish pulp preparation
	E 220-228	Sulphur dioxide - sulphites	800	(3)	only jellying fruit extract, liquid pectin for sale to the final consumer

6. In category 4.2.5.1 ('Extra jam and extra jelly as defined by Directive 2001/113/EC'), the entry concerning food additives E 220 – 228 is deleted.

	E 220-228	Sulphur dioxide - sulphites	100	(3)	only jams, jellies and marmelades made with sulphited fruit
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7. In category 4.2.5.2 ('Jam, jellies and marmalades, and sweetened chestnut purée as defined by Directive 2001/113/EC'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide—sulphites	50	(3)	
	E 220-228	Sulphur dioxide - sulphites	100	(3)	only jams, jellies and marmalades made with sulphited fruit

8. In category 4.2.5.3 ('Other similar fruit or vegetable spreads'), the entry concerning food additives E 220 – 228 is replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	50	(3)	only fruit spreads made with sulphited fruit
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9. In category 4.2.6 ('Processed potato products'):

- (i) the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	400- 150	(3) (X)	Only dehydrated potatoes products
	E 220-228	Sulphur dioxide - sulphites	100	(3)	

- (ii) the new footnote (X) is inserted after footnote (3):

‘(X): The maximum level applies to the dehydrated product before reconstitution’;

10. In category 5.2 ('Other confectionery including breath freshening microsweets'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	100	(3)	only candied, crystallised or glacé fruit, vegetables, angelica and citrus peel
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	E 220-228	Sulphur dioxide—sulphites	50	(3)	only glucose syrup based confectionery (carry over from the glucose syrup only)
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11. In category 5.4 ('Decorations, coatings and fillings, except fruit-based fillings covered by category 4.2.4'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide—sulphites	50	(3)	only glucose syrup based confectionery (carry over from the glucose syrup only)
	E 220-228	Sulphur dioxide - sulphites	40	(3)	only toppings (syrups for pancakes, flavoured syrups for milk-shakes and ice cream; similar products
	E 220-228	Sulphur dioxide - sulphites	100	(3)	only fruit fillings for pastries

12. In category 6.1 ('Whole, broken or flaked grain'), the entry concerning food additives E 220 – 228 is deleted.

	E 220-228	Sulphur dioxide—sulphites	30	(3)	only sago and pearl barley
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13. In category 6.2.2 ('Starches'), the entry concerning food additives E 220 – 228 is replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	50 10	(3)	excluding starches in infant formulae, follow on formulae and processed cereal-based foods and baby foods
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14. In category 9.1.2 ('Unprocessed molluscs and crustaceans'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	150 100	(3) (10)	only fresh, frozen and deep-frozen crustaceans and cephalopods; crustaceans of the Penaeidae, Solenoceridae and Aristaeidae family up to 80 units per kg
	E 220-228	Sulphur dioxide - sulphites	200	(3) (10)	only crustaceans of the Penaeidae, Solenoceridae and Aristaeidae family and the Palaemoninae subfamily between 80 and 120 units per kg
	E 220-228	Sulphur dioxide - sulphites	300	(3) (10)	only crustaceans of the Penaeidae, Solenoceridae and Aristaeidae family over 120 units per kg

15. In category 9.2 ('Processed fish and fishery products, including molluscs and crustaceans'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	50 100	(3) (10)	only cooked crustaceans and cephalopods
	E 220-228	Sulphur dioxide - sulphites	135 200	(3) (10)	only cooked crustaceans of the Penaeidae, Solenoceridae and Aristaeidae family and the Palaemoninae subfamily up to 80 units per kg
	E 220-228	Sulphur dioxide - sulphites	180	(3) (10)	only cooked crustaceans of the Penaeidae, Solenoceridae and Aristaeidae family between 80 and 120 units per kg
	E 220-228	Sulphur dioxide - sulphites	200 10	(3)	only dried salted fish of the 'Gadidae' species
	E 220-228	Sulphur dioxide - sulphites	270	(3) (10)	only cooked crustaceans of the Penaeidae, Solenoceridae and Aristaeidae family over 120 units per kg

16. In category 11.1 ('Sugars and syrups as defined by Directive 2001/111/EC'):

(i) the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	10	(3)	only sugars, except glucose syrup
	E 220-228	Sulphur dioxide - sulphites	20 10	(3)	only glucose syrup, whether or not dehydrated
	E 220-228	Sulphur dioxide - sulphites	20 50	(3) (X)	only glucose syrup, whether or not dehydrated, for the production of marshmallows

(ii) the new footnote (X) is inserted after footnote (3):

‘(X): Carry-over in marshmallows used as final product or as filling shall not exceed 50 mg/kg;

17. In category 12.2.2 ('Seasonings and condiments'), the entry concerning food additives E 220 – 228 is replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	200 100	(3)	only citrus-juice-based seasonings
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18. In category 12.9 ('Protein products, excluding products covered in category 1.8'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide—sulphites	200	(3)	only analogues of meat, fish, crustaceans and cephalopods
	E 220-228	Sulphur dioxide - sulphites	50	(3)	only gelatine

19. In category 14.1.2 ('Fruit juices as defined by Directive 2001/112/EC and vegetable juices'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide—sulphites	50	(3)	only orange, grapefruit, apple and pineapple juice for bulk dispensing in catering establishments
	E 220-228	Sulphur dioxide—sulphites	70	(3)	only grape juice, unfermented, for sacramental use
	E 220-228	Sulphur dioxide - sulphites	350 300	(3)	only lime and lemon juice
	E 220-228	Sulphur dioxide—sulphites	2.000	(3)	only concentrated grape juice for home wine making

20. In category 14.1.4 ('Flavoured drinks'):

(i) the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	20	(3)	only carry over from concentrates in non-alcoholic flavoured drinks containing fruit juice only flavoured drinks made from concentrates containing fruit juice and/or comminuted fruit
	E 220-228	Sulphur dioxide—sulphites	50	(3)	only non-alcoholic flavoured drinks containing at least 235 g/l glucose syrup
	E 220-228	Sulphur dioxide - sulphites	350 50	(3) (X)	only concentrates based on fruit juice and containing not less than 2.5 % barley (barley water)
	E 220-228	Sulphur dioxide - sulphites	250 40	(3) (Y)	only other concentrates based on fruit juice or comminuted fruit; <i>capilé, groselha</i>

(ii) the new footnotes (X) and (Y) are inserted after footnote (3):

‘(X): Concentrates sold as such to the consumer. Maximum level applies to the concentrates after preparation and ready for consumption. The maximum level in the concentrate shall not exceed 250 mg/l.

(Y): Concentrates sold as such to the consumer. Maximum level applies to the concentrates after preparation and ready for consumption. The maximum level in the concentrate shall not exceed 200 mg/l.

21. In category 14.2.2 (‘Wine and other products defined in Part II of Annex VII to Regulation (EU) No 1308/2013’), the entry concerning food additives E 220 – 228 is deleted:

	E 220-228	Sulphur dioxide—sulphites	200	(3)	only alcohol-free ⁷
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22. In category 14.2.3 (‘Cider and perry’), the entry concerning food additives E 220-228 is replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	200 170	(3)	
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23. In category 14.2.4 (‘Fruit wine and made wine’) the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	200 170	(3)	
	E 220-228	Sulphur dioxide—sulphites	260	(3)	only made wine

⁷ (Explanatory footnote not part of the legal proposal: Considering the adoption of EU rules on the de-alcoholisation of wines (Regulation (EU) 2021/2117), the authorisation of E 220-228 for ‘only alcohol free’ wines under Regulation (EC) No 1333/2008 on food additives can be deleted, unless information would be made available that there remain alcohol-free wine counterparts on the market which do not fall under (or comply with the rules related to) one of the categories of de-alcoholised or partially de alcoholised grapevine products listed in ANNEX VII part II of Regulation (EU) No 1308/2013 (e.g. de-alcoholised beverages produced from grape varieties not permitted in wine products).

24. In category 14.2.5 ('Mead'), the entry concerning food additives E 220 – 228 is replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	200-170	(3)	
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25. In category 14.2.7.1 ('Aromatised wines'), the entry concerning food additives E 220-228 is replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	200-170	(3)	
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26. In category 14.2.7.2 ('Aromatised wine-based drinks'), the entry concerning food additives E 220 – 228 is replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	200-170	(3)	
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27. In category 14.2.7.3 ('Aromatised wine-product cocktails'), the entry concerning food additives E 220 – 228 is replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	200-170	(3)	
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28. In category 14.2.8 ('Other alcoholic drinks including mixtures of alcoholic drinks with non-alcoholic drinks and spirits with less than 15 % of alcohol'), the entries concerning food additives E 220 – 228 are replaced by the following:

	E 220-228	Sulphur dioxide - sulphites	200-100	(3)	only <i>napój winny owocowy</i> , <i>napój winny miodowy</i> , <i>aromatyzowany napój winny owocowy</i> , <i>aromatyzowany</i> <i>napój winny miodowy</i>
	E 220-228	Sulphur dioxide - sulphites	20	(3)	only in fermented grape must-based beverages

29. In category 15.1 ('Potato-, cereal-, flour- or starch-based snacks'), the entry concerning food additives E 220 – 228 is deleted.

	E 220-228	Sulphur dioxide—sulphites	50	(3)	only cereal and potato-based snack
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30. In category 15.2 ('Processed nuts'), the entry concerning food additives E 220 – 228 is deleted.

	E 220-228	Sulphur dioxide—sulphites	50	(3)	only marinated nut
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31. Footnote (3) is replaced by the following:

‘(3): Maximum residual amount from all sources ~~levels are~~, expressed as SO₂ ~~relate to the total quantity, available from all sources, an SO₂ content of not more than 10 mg/kg or 10 mg/l is not considered to be present.~~’

ANNEX III

The Annex to Regulation (EU) No 231/2012 is amended as follows:

(1) the entry for 'E 220 sulphur dioxide' is amended as follows:

(a) The following specification is inserted after the 'Definition':

'CAS number	7446-09-5';
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(b) The specification 'Purity' is replaced by the following:

'Purity	
Water content	Not more than 0,05% (Karl Fischer method)
Non-volatile residue	Not more than 0,01%
Sulphur trioxide	Not more than 0,1%
Selenium	Not more than 10 mg/kg
Other gases not normally present in the air	No trace
Arsenic	Not more than 3 mg/kg Not more than 0,1 mg/kg
Lead	Not more than 5 mg/kg Not more than 0,3 mg/kg
Mercury	Not more than 1 mg/kg Not more than 0,3 mg/kg
Cadmium	Not more than 0,5 mg/kg'

(2) the entry for 'E 221 sodium sulphite' is amended as follows:

(a) The following specification is inserted after the 'Definition':

'CAS number	Anhydrous: 7757-83-7 Heptahydrate: 10102-15-5';
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(b) The specification 'Einecs' is replaced by the following:

'EINECS	Anhydrous: 231-821-4';
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(c) The specification 'Purity' is replaced by the following:

‘Purity	
Thiosulphate	Not more than 0,1 % based on the SO₂ content
Iron	Not more than 10 mg/kg based on the SO₂ content
Selenium	Not more than 5 mg/kg based on the SO₂ content
Arsenic	Not more than 3 mg/kg Not more than 0,1 mg/kg
Lead	Not more than 2 mg/kg Not more than 0,3 mg/kg
Mercury	Not more than 1 mg/kg Not more than 0,3 mg/kg
Cadmium	Not more than 0,5 mg/kg’

(3) the entry for ‘E 222 sodium hydrogen sulphite’ is amended as follows:

(a) The following specification is inserted after the ‘Definition’:

‘CAS number	7631-90-5’;
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(b) The specification ‘Einecs’ is replaced by the following:

‘EINECS	231-921-4 231-548-0’;
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(c) The specification ‘Purity’ is replaced by the following:

‘Purity	
Iron	Not more than 10 mg/kg based on the SO₂ content
Selenium	Not more than 5 mg/kg based on the SO₂ content
Arsenic	Not more than 3 mg/kg Not more than 0,1 mg/kg
Lead	Not more than 2 mg/kg Not more than 0,3 mg/kg
Mercury	Not more than 1 mg/kg Not more than 0,3 mg/kg
Cadmium	Not more than 0,5 mg/kg’

(4) the entry for ‘E 223 sodium metabisulphite’ is amended as follows:

(a) The following specification is inserted after the ‘Definition’:

‘CAS number	7681-57-4’;
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(b) The specification ‘Purity’ is replaced by the following:

‘Purity	
Thiosulphate	Not more than 0,1 % based on the SO₂ content
Iron	Not more than 10 mg/kg based on the SO₂ content
Selenium	Not more than 5 mg/kg based on the SO₂ content
Arsenic	Not more than 3 mg/kg Not more than 0,1 mg/kg
Lead	Not more than 2 mg/kg Not more than 0,3 mg/kg
Mercury	Not more than 1 mg/kg Not more than 0,3 mg/kg
Cadmium	Not more than 0,5 mg/kg’

(5) the entry for ‘E 224 potassium metabisulphite’ is amended as follows:

(a) The following specification is inserted after the ‘Definition’:

‘CAS number	16731-55-8’;
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(b) The specification ‘Purity’ is replaced by the following:

‘Purity	
Thiosulphate	Not more than 0,1 % based on the SO₂ content
Iron	Not more than 10 mg/kg based on the SO₂ content
Selenium	Not more than 5 mg/kg based on the SO₂ content
Arsenic	Not more than 3 mg/kg Not more than 0,1 mg/kg
Lead	Not more than 2 mg/kg Not more than 0,3 mg/kg
Mercury	Not more than 1 mg/kg Not more than 0,3 mg/kg
Cadmium	Not more than 0,5 mg/kg’

(6) the entry for ‘E 226 calcium sulphite’ is deleted;

(7) the entry for ‘E 227 calcium hydrogen sulphite’ is deleted;

(8) the entry for 'E 228 potassium hydrogen sulphite' is amended as follows:

(a) The following specification is inserted after the 'Definition':

'CAS number	7773-03-7';
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(b) The specification 'Purity' is replaced by the following:

'Purity	
Iron	Not more than 10 mg/kg based on the SO₂ content
Selenium	Not more than 5 mg/kg based on the SO₂ content
Arsenic	Not more than 3 mg/kg Not more than 0,1 mg/kg
Lead	Not more than 2 mg/kg Not more than 0,3 mg/kg
Mercury	Not more than 1 mg/kg Not more than 0,3 mg/kg
Cadmium	Not more than 0,5 mg/kg'