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| From: | European Commission |
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| To: | General Secretariat of the Council |
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| Subject: | ANNEX to the COMMISSION REGULATION (EU) .../... amending Annex II to Regulation (EC) No 1333/2008 of the European Parliament and of the Council and the Annex to Commission Regulation (EU) No 231/2012 as regards Cochineal, Carminic acid, Carmines (E 120) |

Delegations will find attached document D056133/02 - ANNEX.

Encl.: D056133/02 - ANNEX



EUROPEAN
COMMISSION

Brussels, **XXX**
SANTE/10263/2018 ANNEX
(POOL/E2/2018/10263/10263-EN
ANNEX.doc) D056133/02
[...](2018) **XXX** draft

ANNEX

ANNEX

to the

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

**amending Annex II to Regulation (EC) No 1333/2008 of the European Parliament and of
the Council and the Annex to Commission Regulation (EU) No 231/2012 as regards
Cochineal, Carminic acid, Carmines (E 120)**

ANNEX

In the Annex to Regulation (EU) No 231/2012 the entry for 'E 120 Cochineal, Carminic acid, Carmines' is replaced by the following:

| E 120 CARMINIC ACID, CARMINE | |
|-------------------------------------|---|
| Synonyms | CI Natural Red 4 |
| Definition | <p>Carminic acid is obtained from aqueous, aqueous alcoholic or alcoholic extracts from Cochineal, which consists of the dried bodies of the female insect <i>Dactylopius coccus</i> Costa.</p> <p>Carmines are aluminium lakes of carminic acid in which aluminium and carminic acid are thought to be present in the molar ratio 1:2.</p> <p>The colouring principle is carminic acid. Minor amounts of its aminated form 4-aminocarminic acid may also be present.</p> <p>In commercial products the colouring principle carminic acid may be present in association with ammonium, calcium, potassium or sodium cations, singly or in combination, and these cations may also be present in excess. Commercial products may also contain proteinaceous material derived from the source insect.</p> |
| Colour Index No | 75470 |
| Einecs | Carminic acid: 215-023-3; carmines: 215-724-4 |
| Chemical name | 7-β-D-glucopyranosyl-3,5,6,8-tetrahydroxy-1-methyl-9,10-dioxoanthracene-2-carboxylic acid (carminic acid); carmine is the hydrated aluminium chelate of this acid |
| Chemical formula | C ₂₂ H ₂₀ O ₁₃ (carminic acid) |
| Molecular weight | 492,39 (carminic acid) |
| Assay | Content not less than 90 % carminic acid; not less than 50 % carminic acid in the chelates. |
| Description | Red to dark red, friable, solid or powder |
| Identification | |
| Spectrometry | <p>Carminic acid:</p> <p>Maximum in aqueous ammonia solution at ca. 518 nm</p> <p>Maximum in dilute hydrochloric solution at ca. 494 nm</p> <p>E 1%/1cm 139 at peak around 494 nm in dilute hydrochloric acid</p> <p>4-aminocarminic acid:</p> <p>Maximum in aqueous ammonia solution at 535 nm</p> <p>Maximum in dilute hydrochloric solution at 530 nm</p> <p>E 1%/1cm 260 at peak around 535 nm in aqueous ammonia solution, pH 9,5</p> <p>In commercial products carminic acid may be differentiated from its amine by HPLC</p> |

| | |
|------------------------------------|--|
| Purity | |
| Solvent residues | Ethanol: Not more than 150 mg/kg Methanol: Not more than 50 mg/kg |
| Total ash | Carminic acid: Not more than 5 % Carmine: Not more than 12 % |
| Protein (N x 6.25) | Carminic acid: Not more than 2,2 % Carmine: Not more than 25 % |
| 4-aminocarminic acid | Not more than 3 % relative to carminic acid |
| Matter insoluble in dilute ammonia | Carmine: Not more than 1 % |
| Arsenic | Not more than 1 mg/kg |
| Lead | Not more than 1,5 mg/kg |
| Mercury | Not more than 0,5 mg/kg |
| Cadmium | Not more than 0,1 mg/kg |
| Microbiological criteria | |
| <i>Salmonella</i> spp. | Absent in 10 g |

Aluminium lakes of this colour may be used.