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OFFERYNNAU STATUDOL CYMRU

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**2022 Rhif 1362 (Cy. 273)**

**YMADAEL Â'R UNDEB EWROPEAIDD, CYMRU**

**AMAETHYDDIAETH, CYMRU**

**BWYD, CYMRU**

Rheoliadau Bwyd a Bwyd Anifeiliaid  
(Diwygiadau Amrywiol) (Cymru) (Ymadael â'r UE) 2022

*Gwnaed*

*15 Rhagfyr 2022*

*Yn dod i rym*

*31 Rhagfyr 2022*

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WELSH STATUTORY INSTRUMENTS

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**2022 No. 1362 (W. 273)**

**EXITING THE EUROPEAN UNION, WALES**

**AGRICULTURE, WALES**

**FOOD, WALES**

The Food and Feed (Miscellaneous Amendments)  
(Wales) (EU Exit) Regulations 2022

*Made*

*15 December 2022*

*Coming into force*

*31 December 2022*



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**Rheoliadau Bwyd a Bwyd  
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(Cymru) (Ymadael â'r UE) 2022**

**The Food and Feed (Miscellaneous  
Amendments) (Wales) (EU Exit)  
Regulations 2022**

**NODYN ESBONIADOL**

**EXPLANATORY NOTE**

*(Nid yw'r nodyn hwn yn rhan o'r Rheoliadau)*

*(This note is not part of the Regulations)*

Mae'r Rheoliadau hyn wedi eu gwneud yn bennaf drwy arfer y pwerau a roddir gan baragraff 1(1) o Atodlen 2, a pharagraff 21(b) o Atodlen 7, i Ddeddf yr Undeb Ewropeaidd (Ymadael) 2018 (p. 16) er mwyn ymdrin â methiannau yng nghyfraith yr UE a ddargedwir i weithredu'n effeithiol a diffygion eraill sy'n deillio o ymadawiad y Deyrnas Unedig â'r Undeb Ewropeaidd.

These Regulations are principally made in exercise of the powers conferred by paragraph 1(1) of Schedule 2, and paragraph 21(b) of Schedule 7, to the European Union (Withdrawal) Act 2018 (c. 16) in order to address failures of retained EU law to operate effectively and other deficiencies arising from the withdrawal of the United Kingdom from the European Union.

Mae rheoliadau 4(2)(a)(ii) a 5(2)(a) wedi eu gwneud drwy arfer y pwerau a roddir gan adrannau 66(1), 74A(1) a 84 o Ddeddf Amaethyddiaeth 1970, er mwyn cywiro gwallau presennol.

Regulations 4(2)(a)(ii) and 5(2)(a) are made in exercise of the powers conferred by sections 66(1), 74A(1) and 84 of the Agriculture Act 1970, in order to correct existing errors.

Mae'r Rheoliadau hyn yn diwygio offerynnau statudol Cymru amrywiol sy'n ymwneud â bwyd a bwyd anifeiliaid. Yn benodol, mae'r diwygiadau yn dileu croesyfeiriadau at Gyfarwyddebau'r UE ac yn trosi Atodiadau penodol i'r Cyfarwyddebau hynny, fel yr oeddent yn cael effaith yn union cyn diwrnod cwblhau'r cyfnod gweithredu (11.00 p.m., 31 Rhagfyr 2020), fel Atodlenni newydd i'r offerynnau o dan sylw.

These Regulations make amendments to various Welsh statutory instruments relating to food and feed. In particular, the amendments remove cross-references to EU Directives and transpose certain Annexes to those Directives, as they had effect immediately before implementation period completion day (11.00 p.m., 31 December 2020), as new Schedules to the instruments concerned.

Mae rheoliad 2 (ac Atodlen 1) yn diwygio Rheoliadau Deunyddiau ac Eitemau mewn Cysylltiad â Bwyd (Cymru) 2012 (O.S. 2012/2705 (Cy. 291)). Yn benodol, mae Atodiad 2 i Gyfarwyddeb 2007/42/EC sy'n ymwneud â deunyddiau ac eitemau a wnaed o gaen cellwlos atgynrchiedig ac y bwriedir iddynt ddod i gysylltiad â bwydydd (OJ Rhif L 172, 30.6.2007, t. 71–82) wedi ei drosi i'r Rheoliadau fel Atodlen 6 newydd.

Mae rheoliad 3 (ac Atodlen 2) yn diwygio Rheoliadau Ychwanegion, Cyflasynnau, Enzymau a Thoddyddion Echdynnu Bwyd (Cymru) 2013 (O.S. 2013/2591 (Cy. 255)). Yn benodol, mae Atodiad 1 i Gyfarwyddeb 2009/32/EC Senedd Ewrop a'r Cyngor ar gyd-ddynesiad cyfreithiau'r Aelod-wladwriaethau ynglŷn â thoddyddion echdynnu a ddefnyddir wrth gynhyrchu deunyddiau bwyd a chynhwysion bwyd (OJ Rhif L 141, 6.6.2009, t. 3–11) wedi ei drosi i'r Rheoliadau fel Atodlen 4A newydd.

Mae rheoliad 4 (ac Atodlen 3) yn diwygio Rheoliadau Bwyd Anifeiliaid (Cyfansoddiad, Marchnata a Defnydd) (Cymru) 2016 (O.S. 2016/386 (Cy. 120)). Yn benodol—

- mae'r Atodiad i Gyfarwyddeb y Comisiwn 82/475/EEC sy'n gosod y categorïau o ddeunyddiau bwyd anifeiliaid y caniateir eu defnyddio at ddibenion labelu bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid anwes (OJ Rhif L 213, 21.7.1982, t. 27–28) wedi ei drosi i'r Rheoliadau fel Atodlen 1A newydd;
- mae Atodiadau 1 a 2 i Gyfarwyddeb 2002/32/EC Senedd Ewrop a'r Cyngor ar sylweddau annymunol mewn bwyd anifeiliaid (OJ Rhif L 140, 30.5.2002, t. 10–22) wedi eu trosi i'r Rheoliadau fel Atodlenni 1B ac 1C newydd;
- mae pwerau Comisiwn yr UE i wneud deddfwriaeth drydyddol yn Erthyglau 7 ac 8 o Gyfarwyddeb 2002/32/EC i ddiwygio'r rhestrau o sylweddau annymunol yn Atodiadau 1 a 2 o'r Gyfarwyddeb honno, ac i ddiffinio'r meini prawf derbynioldeb ar gyfer prosesau dadwenwyno, wedi eu cadw. Mae rheoliad 4(8) yn mewnosod rheoliad 15A newydd yn y Rheoliadau, gan roi pwerau cyfatebol i wneud rheoliadau i Weinidogion Cymru, sy'n arferadwy o ran Cymru.

Mae rheoliad 5 yn gwneud mân ddiwygiadau i Reoliadau Bwyd Anifeiliaid (Hylendid, Samplu etc. a Gorfodi) (Cymru) 2016 (O.S. 2016/387 (Cy. 121)).

Regulation 2 (and Schedule 1) amends the Materials and Articles in Contact with Food (Wales) Regulations 2012 (S.I. 2012/2705 (W. 291)). In particular, Annex 2 to Directive 2007/42/EC relating to materials and articles made of regenerated cellulose film intended to come into contact with foodstuffs (OJ No L 172, 30.6.2007, p. 71–82) is transposed into the Regulations as a new Schedule 6.

Regulation 3 (and Schedule 2) amends the Food Additives, Flavourings, Enzymes and Extraction Solvents (Wales) Regulations 2013 (S.I. 2013/2591 (W. 255)). In particular, Annex 1 to Directive 2009/32/EC of the European Parliament and of the Council on the approximation of the laws of the Member States on extraction solvents used in the production of foodstuffs and food ingredients (OJ No L 141, 6.6.2009, p. 3–11) is transposed into the Regulations as a new Schedule 4A.

Regulation 4 (and Schedule 3) amends the Animal Feed (Composition, Marketing and Use) (Wales) Regulations 2016 (S.I. 2016/386 (W. 120)). In particular—

- the Annex to Commission Directive 82/475/EEC laying down the categories of feed materials which may be used for the purposes of labelling compound feedingstuffs for pet animals (OJ No L 213, 21.7.1982, p. 27–28) is transposed into the Regulations as a new Schedule 1A;
- Annexes 1 and 2 to Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed (OJ No L 140, 30.5.2002, p. 10–22) are transposed into the Regulations as new Schedules 1B and 1C;
- the tertiary legislation-making powers of the EU Commission in Articles 7 and 8 of Directive 2002/32/EC to amend the lists of undesirable substances in Annexes 1 and 2 that Directive, and to define acceptability criteria for detoxification processes, are retained. Regulation 4(8) inserts a new Regulation 15A into the Regulations, conferring corresponding regulation-making powers on the Welsh Ministers, exercisable in relation to Wales.

Regulation 5 makes minor amendments to the Animal Feed (Hygiene, Sampling etc. and Enforcement) (Wales) Regulations 2016 (S.I. 2016/387 (W. 121)).

Ystyriwyd Cod Ymarfer Gweinidogion Cymru ar gynnal Aseidiadau Effaith Rheoleiddiol mewn perthynas â'r Rheoliadau hyn. O ganlyniad, ystyriwyd nad oedd yn angenrheidiol cynnal asesiad effaith rheoleiddiol o'r costau a'r manteision sy'n debygol o ddeillio o gydymffurfio â'r Rheoliadau hyn.

The Welsh Ministers' Code of Practice on the carrying out of Regulatory Impact Assessments was considered in relation to these Regulations. As a result, it was not considered necessary to carry out a regulatory impact assessment as to the likely costs and benefits of complying with these Regulations.

**2022 Rhif 1362 (Cy. 273)**

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Rheoliadau Bwyd a Bwyd  
Anifeiliaid (Diwygiadau Amrywiol)  
(Cymru) (Ymadael â'r UE) 2022

*Gwnaed*

*15 Rhagfyr 2022*

*Yn dod i rym*

*31 Rhagfyr 2022*

Mae Gweinidogion Cymru yn gwneud y Rheoliadau hyn drwy arfer y pwerau a roddir gan—

- paragraff 1(1) o Atodlen 2 a pharagraff 21(b) o Atodlen 7 i Ddeddf yr Undeb Ewropeaidd (Ymadael) 2018(1), ac
- adrannau 66(1), 74A(1) a 84 o Ddeddf Amaethyddiaeth 1970(2).

Gosodwyd drafft o'r offeryn hwn gerbron Senedd Cymru ac fe'i cymeradwywyd ganddi drwy

**2022 No. 1362 (W. 273)**

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The Food and Feed (Miscellaneous  
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Regulations 2022

*Made*

*15 December 2022*

*Coming into force*

*31 December 2022*

The Welsh Ministers make these Regulations in exercise of the powers conferred by—

- paragraph 1(1) of Schedule 2 and paragraph 21(b) of Schedule 7 to the European Union (Withdrawal) Act 2018(1), and
- sections 66(1), 74A(1) and 84 of the Agriculture Act 1970(2).

A draft of this instrument has been laid before, and approved by a resolution of, Senedd Cymru in

(1) 2018 p. 16. Gweler adran 20(1) ar gyfer ystyr "devolved authority". Diwygiwyd paragraff 21 o Atodlen 7 gan adran 41(4) o Ddeddf yr Undeb Ewropeaidd (Y Cytundeb Ymadael) 2020 (p. 1), a pharagraffau 38 a 53(2) o Atodlen 5 iddi.

(2) 1970 p. 40. Gweler adran 66(1) ar gyfer ystyr "the Ministers", "prescribed" a "regulations". Trosglwyddwyd swyddogaethau a arferid gynt gan "the Ministers", i'r graddau y maent yn arferadwy o ran Cymru, i Gynulliad Cenedlaethol Cymru gan O.S. 1999/672. Trosglwyddwyd y swyddogaethau hynny wedi hynny i Weinidogion Cymru gan adran 162 o Ddeddf Llywodraeth Cymru 2006 (p. 32), a pharagraff 30 o Atodlen 11 iddi. Mewnysodwyd adran 74A gan baragraff 6 o Atodlen 4 i Ddeddf y Cymunedau Ewropeaidd 1972 (p. 68). Diwygiwyd adran 84 gan O.S. 2004/3254.

(1) 2018 c. 16. See section 20(1) for the meaning of "devolved authority". Paragraph 21 of Schedule 7 was amended by section 41(4) of, and paragraphs 38 and 53(2) of Schedule 5 to, the European Union (Withdrawal Agreement) Act 2020 (c. 1).

(2) 1970 c. 40. See section 66(1) for the meaning of "the Ministers", "prescribed" and "regulations". Functions formerly exercisable by "the Ministers", so far as exercisable in relation to Wales, were transferred to the National Assembly for Wales by S.I. 1999/672, and subsequently transferred to the Welsh Ministers by section 162 of, and paragraph 30 of Schedule 11 to, the Government of Wales Act 2006 (c. 32). Section 74A was inserted by paragraph 6 of Schedule 4 to the European Communities Act 1972 (c. 68). Section 84 was amended by S.I. 2004/3254.

benderfyniad yn unol â pharagraff 1(8) o Atodlen 7 i Ddeddf yr Undeb Ewropeaidd (Ymadael) 2018(1).

Cynhaliwyd ymgynghoriad fel sy'n ofynnol gan Erthygl 9 o Reoliad (EC) Rhif 178/2002 Senedd Ewrop a'r Cyngor sy'n gosod egwyddorion a gofynion cyffredinol cyfraith bwyd, yn sefydlu Awdurdod Diogelwch Bwyd Ewrop ac yn gosod gweithdrefnau o ran materion diogelwch bwyd(2) neu, yn achos darpariaethau sy'n ymwneud â bwyd anifeiliaid ar gyfer anifeiliaid nad ydynt yn cynhyrchu bwyd, adran 84(1) o Ddeddf Amaethyddiaeth 1970.

## Enwi a chychwyn

1. Enw'r Rheoliadau hyn yw Rheoliadau Bwyd a Bwyd Anifeiliaid (Diwygiadau Amrywiol) (Cymru) (Ymadael â'r UE) 2022 a deuant i rym ar 31 Rhagfyr 2022.

## Diwygio Rheoliadau Deunyddiau ac Eitemau mewn Cysylltiad â Bwyd (Cymru) 2012

2.—(1) Mae Rheoliadau Deunyddiau ac Eitemau mewn Cysylltiad â Bwyd (Cymru) 2012(3) wedi eu diwygio fel a ganlyn.

(2) Yn rheoliad 2—

- (a) ym mharagraff (1), hepgorer y diffiniad o “Cyfarwyddeb 2007/42/EC”;
- (b) ym mharagraff (3)—
  - (i) hepgorer “neu at Atodiad i Gyfarwyddeb 2007/42/EC”;
  - (ii) hepgorer “neu'r Atodiad hwnnw”.

(3) Yn rheoliad 11, hepgorer paragraff (3).

(4) Yn rheoliad 12—

- (a) ym mharagraff (1)—
  - (i) yn lle “Atodiad II”, yn y ddau le y mae'n digwydd, rhodder “Atodlen 6”;
  - (ii) yn lle “Atodiad hwnnw” rhodder “Atodlen honno”;
- (b) ym mharagraff (2), yn lle “y rhan gyntaf o Atodiad II” rhodder “nhabl 1 o Atodlen 6”.

accordance with paragraph 1(8) of Schedule 7 to the European Union (Withdrawal) Act 2018(1).

There has been consultation as required by Article 9 of Regulation (EC) No 178/2002 of the European Parliament and of the Council 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(2) or, in the case of provisions relating to feed for non food-producing animals, of section 84(1) of the Agriculture Act 1970.

## Title and commencement

1. The title of these Regulations is the Food and Feed (Miscellaneous Amendments) (Wales) (EU Exit) Regulations 2022 and they come into force on 31 December 2022.

## Amendment to the Materials and Articles in Contact with Food (Wales) Regulations 2012

2.—(1) The Materials and Articles in Contact with Food (Wales) Regulations 2012(3) are amended as follows.

(2) In regulation 2—

- (a) in paragraph (1), omit the definition of “Directive 2007/42/EC”;
- (b) in paragraph (3)—
  - (i) omit “or to an Annex to Directive 2007/42/EC”;
  - (ii) omit “or that Annex”.

(3) In regulation 11, omit paragraph (3).

(4) In regulation 12—

- (a) in paragraph (1)—
  - (i) for “Annex II”, in both places it occurs, substitute “Schedule 6”;
  - (ii) for “that Annex” substitute “that Schedule”;
- (b) in paragraph (2), for “the first part of Annex II” substitute “table 1 of Schedule 6”.

(1) Mae'r cyfeiriadau yn Ndeddf yr Undeb Ewropeaidd (Ymadael) 2018 at Gynulliad Cenedlaethol Cymru bellach yn cael effaith fel cyfeiriadau at Senedd Cymru yn rhinwedd adran 150A(2) o Ddeddf Llywodraeth Cymru 2006 (p. 32). Gweler paragraff 38 o Atodlen 7 i Ddeddf yr Undeb Ewropeaidd (Ymadael) 2018 am ddarpariaeth ynghylch y weithdrefn sy'n gymwys i'r offeryn hwn.

(2) EUR 2002/178, y mae diwygiadau iddo nad ydynt yn berthnasol i'r Rheoliadau hyn.

(3) O.S. 2012/2705 (Cy. 291), a ddiwygiwyd gan O.S. 2017/832 (Cy. 202), 2018/913 (Cy. 179) a 2019/425 (Cy. 99); ceir offerynnau diwygio eraill ond nid yw'r un ohonynt yn berthnasol.

(1) The references in the European Union (Withdrawal) Act 2018 to the National Assembly for Wales now have effect as references to Senedd Cymru by virtue of section 150A(2) of the Government of Wales Act 2006 (c. 32). See paragraph 38 of Schedule 7 to the European Union (Withdrawal) Act 2018 for provision about the procedure that applies to this instrument.

(2) EUR 2002/178, to which there are amendments not relevant to these Regulations.

(3) S.I. 2012/2705 (W. 291), amended by S.I. 2017/832 (W. 202), 2018/913 (W. 179) and 2019/425 (W. 99); there are other amending instruments but none is relevant.

(5) Ar ôl Atodlen 5, mewnosoder yr Atodlen 6 a nodir yn Atodlen 1 i'r Rheoliadau hyn.

### **Diwygio Rheoliadau Ychwanegion, Cyflasynnau, Ensymau a Thoddyddion Echdynnu Bwyd (Cymru) 2013**

**3.**—(1) Mae Rheoliadau Ychwanegion, Cyflasynnau, Ensymau a Thoddyddion Echdynnu Bwyd (Cymru) 2013(1) wedi eu diwygio fel a ganlyn.

(2) Yn rheoliad 2—

(a) ym mharagraff (1)—

(i) hepgorer y diffiniad o “Cyfarwyddeb 2009/32”;

(ii) yn y diffiniad o “Rheoliadau'r UE”, ar ôl “UE” mewnosoder “a ddargedwir”;

(b) ym mharagraff (2), yn lle “offerynnau'r UE” rhodder “yr offerynnau”;

(c) ym mharagraff (3), yn lle “o offerynnau'r UE” rhodder “o'r offerynnau”;

(d) ym mharagraff (4), yn lle “Offerynnau'r UE” rhodder “Yr offerynnau” a hepgorer “Cyfarwyddeb 2009/32,”.

(3) Hepgorer rheoliad 9.

(4) Yn rheoliad 10(a), yn lle “Atodiad I” rhodder “Atodlen 4A”.

(5) Yn rheoliad 11(a)—

(a) yn is-baragraff (i), yn lle “Atodiad I” rhodder “Atodlen 4A”;

(b) yn is-baragraff (ii), yn lle “yr Atodiad hwnnw” rhodder “Atodlen 4A”;

(c) ar ôl is-baragraff (iii), mewnosoder “ac”;

(d) ar ôl is-baragraff (iv), yn lle “, a” rhodder “; neu”;

(e) hepgorer is-baragraff (v) a'r “neu” sy'n ei ddilyn.

(6) Yn rheoliad 14(1)(a), yn lle “Atodiad 1” rhodder “Atodlen 4A”.

(7) Yn rheoliad 16, ar ôl “Rheoliadau'r UE” mewnosoder “a ddargedwir”.

(8) Yn rheoliad 19(2), ar ôl “Reoliadau'r UE” mewnosoder “a ddargedwir”.

(9) Ar ôl Atodlen 4, mewnosoder yr Atodlen 4A a nodir yn Atodlen 2 i'r Rheoliadau hyn.

(5) After Schedule 5, insert the Schedule 6 set out in Schedule 1 to these Regulations.

### **Amendment to the Food Additives, Flavourings, Enzymes and Extraction Solvents (Wales) Regulations 2013**

**3.**—(1) The Food Additives, Flavourings, Enzymes and Extraction Solvents (Wales) Regulations 2013(1) are amended as follows.

(2) In regulation 2—

(a) in paragraph (1)—

(i) omit the definition of “Directive 2009/32”;

(ii) in the definition of “the EU Regulations”, before “EU” insert “retained”;

(b) in paragraph (2), omit “EU”;

(c) in paragraph (3), omit “EU”;

(d) in paragraph (4), omit “EU” and “Directive 2009/32,”.

(3) Omit regulation 9.

(4) In regulation 10(a), for “Annex I” substitute “Schedule 4A”.

(5) In regulation 11(a)—

(a) in sub-paragraph (i), for “Annex I” substitute “Schedule 4A”;

(b) in sub-paragraph (ii), for “that Annex” substitute “Schedule 4A”;

(c) after sub-paragraph (iii), insert an “and”;

(d) after sub-paragraph (iv), for “, and” substitute “; or”;

(e) omit sub-paragraph (v) and the “or” after it.

(6) In regulation 14(1)(a), for “Annex 1” substitute “Schedule 4A”.

(7) In regulation 16, before “EU Regulations” insert “retained”.

(8) In regulation 19(2), before “EU Regulations” insert “retained”.

(9) After Schedule 4, insert the Schedule 4A set out in Schedule 2 to these Regulations.

(1) O.S. 2013/2591 (Cy. 255), a ddiwygiwyd gan O.S. 2020/1581 (Cy. 331); ceir offerynnau diwygio eraill ond nid yw'r un ohonynt yn berthnasol.

(1) S.I. 2013/2591 (W. 255), amended by S.I. 2020/1581 (W. 331); there are other amending instruments but none is relevant.



**Diwygio Rheoliadau Bwyd Anifeiliaid  
(Cyfansoddiad, Marchnata a Defnydd) (Cymru)  
2016**

4.—(1) Mae Rheoliadau Bwyd Anifeiliaid (Cyfansoddiad, Marchnata a Defnydd) (Cymru) 2016(1) wedi eu diwygio fel a ganlyn.

(2) Yn rheoliad 2—

(a) ym mharagraff (1)—

(i) hepgorer y diffiniadau o “Cyfarwyddeb 82/475” a “Cyfarwyddeb 2002/32”;

(ii) yn y diffiniad o “awdurdod bwyd anifeiliaid”, yn lle “67(1)” rhodder “67(1A)”;

(b) ym mharagraff (2), ar ôl “UE” mewnosoder “a ddargedwir”;

(c) ym mharagraff (3), yn y ddau le y mae’n digwydd, hepgorer “UE”.

(3) Yn rheoliad 12(2), yn lle “yr Atodiad i Gyfarwyddeb 82/475” rhodder “Atodlen 1A”.

(4) Yn rheoliad 13(2)(b), yn lle “i’r awdurdod priodol” rhodder “i Weinidogion Cymru”.

(5) Yn lle pennawd Rhan 6 rhodder—

“Sylweddau annymunol mewn  
cynhyrchion a fwriedir ar gyfer bwyd  
anifeiliaid”

(6) Yn rheoliad 14, hepgorer paragraff (a) a’r “a” sydd ar ei ôl.

(7) Yn rheoliad 15—

(a) ym mharagraff (1)—

(i) yn is-baragraff (a), yn lle “Atodiad I” rhodder “dabl yn Atodlen 1B”;

(ii) yn y geiriau sy’n dod ar ôl is-baragraff (b), yn lle “Atodiad” rhodder “tabl”;

(b) ym mharagraff (2)—

(i) yn is-baragraff (a), yn lle “Atodiad I” rhodder “dabl yn Atodlen 1B”;

(ii) yn is-baragraff (b), yn lle “Atodiad” rhodder “tabl”;

(c) ym mharagraff (3)—

(i) yn lle “Atodiad I” rhodder “dabl yn Atodlen 1B”;

(ii) yn lle “Atodiad”, yn yr ail le y mae’n digwydd, rhodder “tabl”;

**Amendment to the Animal Feed (Composition,  
Marketing and Use) (Wales) Regulations 2016**

4.—(1) The Animal Feed (Composition, Marketing and Use) (Wales) Regulations 2016(1) are amended as follows.

(2) In regulation 2—

(a) in paragraph (1)—

(i) omit the definitions of “Directive 82/475” and “Directive 2002/32”;

(ii) in the definition of “feed authority”, for “67(1)” substitute “67(1A)”;

(b) in paragraph (2), before “EU” insert “retained”;

(c) in paragraph (3), in both places it occurs, omit “EU”.

(3) In regulation 12(2), for “the Annex to Directive 82/475” substitute “Schedule 1A”.

(4) In regulation 13(2)(b), for “appropriate authority” substitute “Welsh Ministers”.

(5) For the heading of Part 6 substitute—

“Undesirable substances in products  
intended for animal feed”

(6) In regulation 14, omit paragraph (a) and the “and” after it.

(7) In regulation 15—

(a) in paragraph (1)—

(i) in sub-paragraph (a), for “Annex I” substitute “a table in Schedule 1B”;

(ii) in the words after sub-paragraph (b), for “Annex” substitute “table”;

(b) in paragraph (2)—

(i) in sub-paragraph (a), for “Annex I” substitute “a table in Schedule 1B”;

(ii) in sub-paragraph (b), for “Annex” substitute “table”;

(c) in paragraph (3)—

(i) for “Annex I” substitute “a table in Schedule 1B”;

(ii) for “Annex”, in the second place it occurs, substitute “table”;

(1) O.S. 2016/386 (Cy. 120), a ddiwygiwyd gan O.S. 2018/806 (Cy. 162), 2019/1046 (Cy. 185) a 2020/1381 (Cy. 307); ceir offeryn diwygio arall nad yw’n berthnasol i’r Rheoliadau hyn.

(1) S.I. 2016/386 (W. 120), amended by S.I. 2018/806 (W. 162), 2019/1046 (W. 185) and 2020/1381 (W. 307); there is another amending instrument not relevant to these Regulations.

- (d) ym mharagraff (5)—
  - (i) yn lle “Atodiad I” rhodder “dabl yn Atodlen 1B”;
  - (ii) yn lle “Atodiad”, yn yr ail le y mae’n digwydd, rhodder “tabl”;

- (e) ym mharagraff (7)—
  - (i) ar ôl is-baragraff (c) hepgorer yr “a”;
  - (ii) ar ôl is-baragraff (d) mewnosoder—
    - “(e) mawn;
    - (f) leonardit.”;

- (f) ar ôl paragraff (8) mewnosoder—
 

“(9) Er mwyn lleihau neu ddileu ffynonellau sylweddau annymunol mewn cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid, rhaid i awdurdodau bwyd anifeiliaid gynnal ymchwiliadau i ganfod ffynonellau sylweddau annymunol, mewn achosion pan fo mwy o’r sylweddau na’r lefelau uchaf a ganiateir ac mewn achosion pan fo lefelau uwch o’r sylweddau hynny wedi eu canfod, gan ystyried y lefelau cefndir.

(10) Mewn achosion o lefelau uwch o’r sylweddau annymunol a restrir yn Atodlen 1C, mae trothwyon gweithredu ar gyfer sbarduno ymchwiliadau wedi eu nodi yn yr Atodlen honno.

(11) Rhaid i awdurdodau bwyd anifeiliaid anfon i’r Asiantaeth yr holl wybodaeth berthnasol a chanfyddiadau o ran y ffynhonnell a’r mesurau a gymerwyd i leihau’r lefel o sylweddau annymunol neu i’w dileu.”

- (8) Ar ôl rheoliad 15 mewnosoder—

**“Rheoliadau sy’n diwygio Atodlenni 1B ac 1C**

**15A.**—(1) Pan fo paragraff (2) yn gymwys, caiff Gweinidogion Cymru, drwy reoliadau, wneud darpariaeth i ddiwygio cofnod, ychwanegu cofnod neu ddileu cofnod yn Atodlen 1B neu 1C.

- (2) Mae’r paragraff hwn yn gymwys—
  - (a) pan fo Gweinidogion Cymru yn ystyried bod presenoldeb sylwedd annymunol nas rhestrir yn Atodlen 1B, neu ar lefel a ganiateir yn unol ag Atodlen 1B, mewn bwyd anifeiliaid yn peri, neu y byddai’n peri, perygl i iechyd anifeiliaid neu iechyd dynol neu i’r amgylchedd, neu

- (d) in paragraph (5)—
  - (i) for “Annex I” substitute “a table in Schedule 1B”;
  - (ii) for “Annex”, in the second place it occurs, substitute “table”;

- (e) in paragraph (7)—
  - (i) after sub-paragraph (c) omit the “and”;
  - (ii) after sub-paragraph (d) insert—
    - “(e) peat;
    - (f) leonardite.”;

- (f) after paragraph (8) insert—
 

“(9) In order to reduce or eliminate sources of undesirable substances in products intended for animal feed, feed authorities must carry out investigations to identify the sources of undesirable substances, in cases where the maximum levels are exceeded and in cases where increased levels of such substances are detected, taking into account background levels.

(10) In cases of increased levels of undesirable substances listed in Schedule 1C, action thresholds to trigger investigations are set out in that Schedule.

(11) Feed authorities must send to the Agency all relevant information and findings of the source and the measures taken to reduce the level of, or eliminate, undesirable substances.”

- (8) After regulation 15 insert—

**“Regulations amending Schedules 1B and 1C**

**15A.**—(1) Where paragraph (2) applies, the Welsh Ministers may, by regulations, make provision to amend, add, or remove an entry in Schedule 1B or 1C.

- (2) This paragraph applies where—
  - (a) the Welsh Ministers consider that the presence in feed of an undesirable substance not listed in Schedule 1B, or at a level permitted in accordance with Schedule 1B, presents, or would present, a danger to animal or human health or to the environment, or

(b) pan fo Gweinidogion Cymru yn ystyried bod hynny'n angenrheidiol er mwyn addasu i ddatblygiadau gwyddonol a thechnegol.

(3) Caiff Gweinidogion Cymru, drwy reoliadau, ddiffinio meini prawf derbynoldeb ar gyfer prosesau dadwenwyno a ddefnyddir i ddileu sylwedd annymunol a restrir yn Atodlen 1B yn fwriadol o fwyd anifeiliaid.

(4) Mae pŵer i wneud rheoliadau o dan y rheoliad hwn—

- (a) yn arferadwy drwy offeryn statudol;
- (b) yn cynnwys y pŵer i wneud darpariaeth wahanol at ddibenion gwahanol;
- (c) yn cynnwys y pŵer i wneud darpariaeth ddeilliadol, darpariaeth atodol, darpariaeth ganlyniadol, darpariaeth drosiannol, darpariaeth ddarfodol neu ddarpariaeth arbed (gan gynnwys darpariaeth sy'n diwygio, yn diddymu neu'n dirymu deddfiadau neu ddeddfwriaeth uniongyrchol yr UE a ddargedwir).

(5) Mae offeryn statudol sy'n cynnwys rheoliadau o dan y rheoliad hwn yn ddarostyngedig i'w ddiddymu yn unol â phenderfyniad gan Senedd Cymru.”

(9) Ar ôl Atodlen 1 mewnosoder yr Atodlenni 1A, 1B ac 1C a nodir yn Atodlen 3 i'r Rheoliadau hyn.

#### **Diwygio Rheoliadau Bwyd Anifeiliaid (Hylendid, Samplu etc. a Gorfodi) (Cymru) 2016**

**5.—(1)** Mae Rheoliadau Bwyd Anifeiliaid (Hylendid, Samplu etc. a Gorfodi) (Cymru) 2016(1) wedi eu diwygio fel a ganlyn.

(2) Yn rheoliad 2—

- (a) ym mharagraff (1), yn y diffiniad o “awdurdod bwyd anifeiliaid”, yn lle “67(1)” rhodder “67(1A)”;
- (b) ym mharagraff (5)—
  - (i) yn y testun Saesneg, yn lle “an” rhodder “a”;
  - (ii) yn y ddau le y mae'n digwydd, hepgorer “UE”.

(3) Yn rheoliad 4(1)(a), yn lle “20(2), 21(1) a 22(2)(b)” rhodder “19(3) a (7) ac 21(1)”.

(b) the Welsh Ministers consider it necessary in order to adapt to scientific and technical developments.

(3) The Welsh Ministers may, by regulations, define acceptability criteria for detoxification processes through which an undesirable substance listed in Schedule 1B is on purpose removed from feed.

(4) A power to make regulations under this regulation—

- (a) is exercisable by statutory instrument;
- (b) includes the power to make different provision for different purposes;
- (c) includes the power to make incidental, supplementary, consequential, transitional, transitory or saving provision (including provision amending, repealing or revoking enactments or retained direct EU legislation).

(5) A statutory instrument that contains regulations under this regulation is subject to annulment in pursuance of a resolution of Senedd Cymru.”

(9) After Schedule 1 insert the Schedules 1A, 1B and 1C set out in Schedule 3 to these Regulations.

#### **Amendment to the Animal Feed (Hygiene, Sampling etc. and Enforcement) (Wales) Regulations 2016**

**5.—(1)** The Animal Feed (Hygiene, Sampling etc. and Enforcement) (Wales) Regulations 2016(1) is amended as follows.

(2) In regulation 2—

- (a) in paragraph (1), in the definition of “feed authority”, for “67(1)” substitute “67(1A)”;
- (b) in paragraph (5)—
  - (i) in the English language text, for “an” substitute “a”;
  - (ii) in both places it occurs, omit “EU”.

(3) In regulation 4(1)(a), for “20(2), 21(1) and 22(2)(b)” substitute “19(3) and (7) and 21(1)”.

(1) O.S. 2016/387 (Cy. 121), a ddiwygiwyd gan O.S. 2018/806 (Cy. 162), 2020/1381 (Cy. 307), 2020/1487 (Cy. 317); ceir offerynnau diwygio eraill ond nid yw'r un ohonynt yn berthnasol.

(1) S.I. 2016/387 (W. 121), amended by S.I. 2018/806 (W. 162), 2020/1381 (W. 307), 2020/1487 (W.317); there are other amending instruments but none is relevant.

(4) Yn rheoliad 30(1)(b), yn lle “ag Erthygl 4.2 o Gyfarwyddeb 2002/32/EC Senedd Ewrop a’r Cyngor ar sylweddau annymunol mewn bwyd anifeiliaid” rhodder “â rheoliad 15(9) o Reoliadau Bwyd Anifeiliaid (Cyfansoddiad, Marchnata a Defnydd) (Cymru) 2016”.

(4) In regulation 30(1)(b), for “Article 4.2 of Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed” substitute “regulation 15(9) of the Animal Feed (Composition, Marketing and Use) (Wales) Regulations 2016”.

*Lynne Neagle*

Y Dirprwy Weinidog Iechyd Meddwl a Llesiant, o dan awdurdod y Gweinidog Iechyd a Gwasanaethau Cymdeithasol, un o Weinidogion Cymru  
15 Rhagfyr 2022

Deputy Minister for Mental Health and Wellbeing, under the authority of the Minister for Health and Social Services, one of the Welsh Ministers  
15 December 2022

Atodlen 6 newydd i Reoliadau Deunyddiau ac Eitemau mewn Cysylltiad â  
Bwyd (Cymru) 2012

## “ATODLEN 6

Rheoliad 12(1) a (2)

RHESTR O’R SYLWEDDAU A AWDURDODWYD AR GYFER  
GWEITHGYNHYRCHU CAEN CELLWLOS ATGYNYRCHIEDIG

Nodiadau:

- Mae’r canrannau yn yr Atodlen hon wedi eu mynegi mewn pwysau/pwysau (p/p) ac wedi eu cyfrifo mewn perthynas â maint y caen cellwlos atgynyrchiedig anhydrous heb araen.
- Rhoddir yr enwau technegol arferol mewn cromfachau sgwâr.
- Rhaid i’r sylweddau a ddefnyddir fod o ansawdd technegol da o ran y meini prawf purdeb.

Tabl 1

## Caen cellwlos atgynyrchiedig heb araen

<i>Enwau</i>	<i>Cyfyngiadau</i>
<b>A. Cellwlos atgynyrchiedig</b>	Heb fod yn llai na 72% (p/p)
<b>B. Ychwanegion</b>	
1. <i>Meddalyddion</i>	Heb fod yn fwy na chyfanswm o 27% (p/p)
— Ether bis (2- hydrocsiethyl)[= deuethylenglycol]	Dim ond ar gyfer caenau y bwriedir eu haraenu ac yna eu defnyddio ar gyfer bwydydd nad ydynt yn llaith, sef bwydydd nad ydynt yn cynnwys dŵr sydd yn ffisegol rydd ar yr wyneb. Ni chaiff cyfanswm yr ether bis(2- hydrocsiethyl) a’r ethanedïol sy’n bresennol mewn bwydydd sydd wedi bod mewn cysylltiad â chaen o’r math hwn fod yn fwy na 30mg/kg o’r bwyd.
— Ethanedïol [= monoethylenglycol]	
— 1,3-bwtanedïol	
— Glyserol	
— 1,2-propanediol [= 1,2 propylenglycol]	
— Polyethylen ocsid [= polyethylenglycol]	Pwysau gronynnol cyfartalog rhwng 250 a 1200.
— 1,2-polypropylen ocsid [= 1,2 polypropylenglycol]	Pwysau gronynnol cyfartalog heb fod yn fwy na 400 a chynnwys 1.3-propanediol rhydd heb fod yn fwy na 1% (p/p) mewn sylwedd.
— Sorbitol	
— Tetraethylenglycol	

— Triethylenglycol	
— Wrea	
2. <i>Ychwanegion Eraill</i>	Heb fod yn fwy na chyfanswm o 1% (p/p).
<i>Y dosbarth cyntaf</i>	Ni chaiff maint y sylwedd neu'r grŵp o sylweddau ym mhob indent fod yn fwy na 2mg/dm <sup>2</sup> o'r caen heb ei araenu.
— Asid asetig a'i halwynau NH <sub>4</sub> , Ca, Mg, K ac Na	
— Asid asgorbig a'i halwynau NH <sub>4</sub> , Ca, Mg, K ac Na	
— Asid bensoïg a sodiwm bensoad	
— Asid fformig a'i halwynau NH <sub>4</sub> , Ca, Mg, K ac Na	
— Asidau brasterog unionlin, dirlawn neu annirlawn, gydag eilrif o atomau carbon o 8 i 20 yn gynhwysol a hefyd asidau behenig a risinolëig a halwynau NH <sub>4</sub> , Ca, Mg, K, Na, Al a Zn yr asidau hyn	
— Asidau sitrig, d- ac l-lactig, malëig, l-tartarig a'u halwynau Na a K	
— Asid sorbig a'i halwynau NH <sub>4</sub> , Ca, Mg, K ac Na	
— Amidau asidau brasterog unionlin, dirlawn neu annirlawn, gydag eilrif o atomau carbon o 8 i 20 yn gynhwysol a hefyd amidau asidau behenig a risinolëig	
— Startsys a blodiau bwytadwy naturiol	
— Startsys a blodiau bwytadwy a addaswyd drwy driniaeth gemegol	
— Amylos	
— Carbonadau a chloridau calsiwm a magnesiwm	
— Esterau glyserol gydag asidau brasterog unionlin, dirlawn neu annirlawn, gydag eilrif o atomau carbon o 8 i 20 yn gynhwysol a/neu gydag asidau adipig, sitrig, 12-hydrocsistearig (ocsistearin), risinolëig	
— Esterau polyocsiethylen (8 i 14 o grwpiau ocsiethylen) gydag asidau brasterog unionlin, dirlawn neu annirlawn, gydag eilrif o atomau carbon o 8 i 20 yn gynhwysol	
— Esterau sorbitol gydag asidau brasterog unionlin, dirlawn neu annirlawn, gydag eilrif o atomau carbon o 8 i 20 yn gynhwysol	
— Mono-a/neu di-esterau asid stearig gydag ethanedïol a/neu ether bis (2-hydrocsiethyl) a/neu driethylen glycol	
— Ocsidau a hydrocsidau alwminiwm, calsiwm, magnesiwm a silicon a silicadau a silicadau hydradol alwminiwm, calsiwm, magnesiwm a photasiwm	
— Polyethylen ocsid [= polyethylenglycol]	Pwysau gronynnol cyfartalog rhwng 1200 a 4000.
— Sodiwm propionad	

<i>Yr ail ddosbarth</i>	Ni chaiff cyfanswm maint y sylweddau fod yn fwy nag 1mg/dm <sup>2</sup> o'r caen heb ei araenu ac ni chaiff maint y sylwedd neu grŵp o sylweddau ym mhob indent fod yn fwy na 0.2mg/dm <sup>2</sup> (neu derfyn is pan bennir un) o'r caen heb ei araenu.
— Sodiwm alcyl (C <sub>8</sub> -C <sub>18</sub> ) bensen sylffonad	
— Sodiwm isopropyl naffthalen sylffonad	
— Sodiwm alcyl (C <sub>8</sub> -C <sub>18</sub> ) sylffad	
— Sodiwm alcyl (C <sub>8</sub> -C <sub>18</sub> ) sylffonad	
— Sodiwm deuoctylsylffosysinad	
— Deustearad deuhydrocsiethyl deuethylen triamin monoasetad	Heb fod yn fwy na 0.05mg/dm <sup>2</sup> o'r caen heb ei araenu.
— Amoniwm, magnesiwm a photasiwm lawryl sylffadau	
— N,N'-deustearoyl deuaminoethan, N,N'-deupalmitoyl deuaminoethan ac N,N'-deuoleoyl deuaminoethan	
— 2-heptadecyl-4,4-bis(methylen-stearad) ocsasolin	
— Polyethylen-aminostearamid ethylsylffad	Heb fod yn fwy na 0.1mg/dm <sup>2</sup> o'r caen heb ei araenu.
<i>Y trydydd dosbarth — Cyfrwng angori</i>	Ni chaiff cyfanswm maint y sylweddau fod yn fwy nag 1mg/dm <sup>2</sup> o'r caen heb ei araenu.
— Cynnrych cyddwysiad melamin-fformaldehyd heb ei addasu, neu y gellir ei addasu gydag un neu ragor o'r cynhyrchion a ganlyn: <ul style="list-style-type: none"> <li>• bwtanol</li> <li>• deuethylentriamin</li> <li>• ethanol</li> <li>• triethylentetramin</li> <li>• tetraethylenpentamin</li> <li>• tri-(2-hydrocsiethyl) amin</li> <li>• 3,3'-deuaminodipropylamin</li> <li>• 4,4'-deuaminodibwtylamin</li> </ul>	Cynnwys fformaldehyd rhydd heb fod yn fwy na 0.5mg/dm <sup>2</sup> o'r caen heb ei araenu. Cynnwys melamin rhydd heb fod yn fwy na 0.3mg/dm <sup>2</sup> o'r caen heb ei araenu.
— Cynnrych cyddwysiad melamin-wrea-fformaldehyd a addaswyd gyda thris-(2-hydrocsiethyl)amin	Cynnwys fformaldehyd rhydd heb fod yn fwy na 0.5mg/dm <sup>2</sup> o'r caen heb ei araenu. Cynnwys melamin rhydd heb fod yn fwy na 0.3mg/dm <sup>2</sup> o'r caen heb ei araenu.

<p>— Polyalcylenaminau cationig croesgysylltiedig:</p> <ul style="list-style-type: none"> <li>• resin polyamid-epiclorhydrin yn seiliedig ar deuaminopropylmethylamin ac epiclorhydrin</li> <li>• resin polyamid-epiclorhydrin yn seiliedig ar epiclorhydrin, asid adipig, caprolactam, deuethylentriamin a/neu ethylendiamin</li> <li>• resin polyamid-epiclorhydrin yn seiliedig ar asid adipig, deuethylentriamin ac epiclorhydrin, neu gymysgedd o epiclorhydrin ac amonia</li> <li>• resin polyamid-polyamin-epiclorhydrin yn seiliedig ar epiclorhydrin, deumethyl adipad a deuethylentriamin</li> <li>• resin polyamid-polyamin-epiclorhydrin yn seiliedig ar epiclorhydrin, adipamid a deuaminopropylmethylamin</li> </ul>	
<p>— Polyethylenaminau a pholyethyleniminau</p>	<p>Heb fod yn fwy na 0.75mg/dm<sup>2</sup> o'r caen heb ei araenu.</p>
<p>— Cynnyrch cyddwysiad wrea-fformaldehyd heb ei addasu, neu y gellir ei addasu gydag un neu ragor o'r cynhyrchion a ganlyn:</p> <ul style="list-style-type: none"> <li>• asid aminomethylswlffonig</li> <li>• asid sylffanilig</li> <li>• bwtanol</li> <li>• deuaminobwtan</li> <li>• deuaminodiethylamin</li> <li>• deuaminodipropylamin</li> <li>• deuaminopropan</li> <li>• deuethylentriamin</li> <li>• ethanol</li> <li>• gwanidin</li> <li>• methanol</li> <li>• tetraethylenpentamin</li> <li>• triethylentetramin</li> <li>• sodiwm sylffit</li> </ul>	<p>Cynnwys fformaldehyd rhydd heb fod yn fwy na 0.5mg/dm<sup>2</sup> o'r caen heb ei araenu.</p>
<p><i>Y pedwerydd dosbarth</i></p>	<p>Ni chaiff cyfanswm maint y sylweddau fod yn fwy nag 0.01mg/dm<sup>2</sup> o'r caen heb ei araenu.</p>
<p>— Cynhyrchion sy'n deillio o adwaith aminau olewau bwydadwy gyda pholyethylen ocsid</p>	
<p>— Monoethanolamin lawryl sylffad</p>	



**Tabl 2**  
**Caen cellwlos atgynyrchiedig gydag araeu**

<i>Enwau</i>	<i>Cyfngiadau</i>
<b>A. Cellwlos atgynyrchiedig</b>	Gweler Tabl 1.
<b>B. Ychwanegion</b>	Gweler Tabl 1.
<b>C. Araeu</b>	
1. <i>Polymerau</i>	Ni chaiff cyfanswm maint y sylweddau fod yn fwy na 50mg/dm <sup>2</sup> o'r araeu ar yr ochr sydd mewn cysylltiad â bwyd.
— Etherau ethyl, hydrocsiethyl, hydrocsipropyl a methyl cellwlos	
— Cellwlos nitrad	Heb fod yn fwy na 20mg/dm <sup>2</sup> o'r araeu ar yr ochr sydd mewn cysylltiad â bwyd; cynnwys nitrogen rhwng 10.8% (p/p) a 12.2% (p/p) yn y cellwlos nitrad.
2. <i>Resinau</i>	Ni chaiff cyfanswm maint y sylweddau fod yn fwy na 12.5mg/dm <sup>2</sup> o'r araeu ar yr ochr sydd mewn cysylltiad â bwyd a dim ond ar gyfer paratoi caenau cellwlos atgynyrchiedig gydag araeu sy'n seiliedig ar gellwlos nitrad.
— Casein	
— Coloffoni a/neu ei gynhyrchion polymeru, hydrogenu, neu ddadgyfrannu a'u hesterau methyl, ethyl neu alcoholau polyfalent C <sub>2</sub> i C <sub>6</sub> , neu gymysgeddau o'r alcoholau hyn	
— Coloffoni a/neu ei gynhyrchion polymeru, hydrogenu, neu ddadgyfrannu wedi eu cyddwyso ag asidau acrylig, malëig, sitrig, ffwmariig a/neu ffthalig a/neu 2,2 bis (4-hydrocsiffenyl) propan fformaldehyd ac wedi eu hestaru â methyl ethyl neu alcoholau polyfalent C <sub>2</sub> i C <sub>6</sub> , neu gymysgeddau o'r alcoholau hyn	
— Esterau sy'n deillio o ether bis(2-hydrocsiethyl) gyda chynhyrchion ychwanegu betapinen, a/neu ddeupenten, a/neu ddeuterpen a malëig anhydrid	
— Gelatin bwytdwy	
— Olew castor a'i gynhyrchion dadhydradu neu hydrogenu a'i gynhyrchion cyddwyso gydag asidau polyglyserol, adipig, sitrig, malëig, ffthalig a sebasig	
— Gwm naturiol [= damar]	
— Poly-beta-pinen [= resinau terpenig]	
— Resinau wrea-fformaldehyd (gweler cyfryngau angori)	
3. <i>Plastigyddion</i>	Ni chaiff cyfanswm maint y sylweddau fod yn fwy na 6mg/dm <sup>2</sup> o'r araeu ar yr ochr sydd mewn cysylltiad â bwyd.

— Asetyl tribwtyl sitrad	
— Asetyl tri(2-ethylhecsyl) sitrad	
— Deu-isobwtyl adipad	
— Deu-n-bwtyl adipad	
— Deu-n-hecsyl aselad	
— Deugylchohecsyl ffthalad	Heb fod yn fwy na 4.0mg/dm <sup>2</sup> o'r araen ar yr ochr sydd mewn cysylltiad â bwyd.
— 2-ethylhecsyl deuffenyl ffosffad (cyfystyr: ester asid ffosfforig deuffenyl 2 ethylhecsyl)	Ni chaiff maint y 2-ethylhecsyl deuffenyl ffosffad fod yn fwy na:  (a) 2.4mg/kg o'r bwyd sydd mewn cysylltiad â'r math hwn o gaen; neu  (b) 0.4mg/dm <sup>2</sup> yn yr araen ar yr ochr sydd mewn cysylltiad â bwyd.
— Glyserol monoasetad [= monoasetin]	
— Glyserol deuasetad [= deuasetin]	
— Glyserol triasetad [= triasetin]	
— Deu-bwtyl sebasad	
— Deu-n-bwtyl tartrad	
— Deu-isobwtyl tartrad	
4. Ychwanegion eraill	Ni chaiff cyfanswm maint y sylweddau fod yn fwy na 6mg/dm <sup>2</sup> yn y caen cellwlos atgynyrchiedig heb araen, yn gynhwysol o'r araen ar yr ochr sydd mewn cysylltiad â bwyd.
4.1 Yr ychwanegion a restrir yn Nhabl 1	Yr un cyfyngiadau ag yn Nhabl 1 (fodd bynnag mae'r meintiau mewn mg/dm <sup>2</sup> yn cyfeirio at y caen cellwlos atgynyrchiedig heb araen, yn gynhwysol o'r araen ar yr ochr sydd mewn cysylltiad â bwyd).
4.2 Ychwanegion araen penodol	Ni chaiff maint y sylwedd neu grŵp o sylweddau ym mhob indent fod yn fwy na 2mg/dm <sup>2</sup> (neu derfyn is pan bennir un) o'r araen ar yr ochr sydd mewn cysylltiad â bwyd.
— 1-hecsadecanol ac 1-octadecanol	
— Esterau asidau brasterog unionlin, dirlawn neu annirlawn, gydag eilrif o atomau carbon o 8 i 20 yn gynhwysol ac o asid risinolëig gydag alcoholau unionlin ethyl, bwtyl, amyl ac oleyl	
— Cwyrâu montan, ar ffurf asidau montanig puredig (C <sub>26</sub> i C <sub>32</sub> ) a/neu eu hesterau gydag ethanediol a/neu 1,3 bwtanediol a/neu eu halwynau calsiwm a photasiwm	
— Cwyr carnawba	

— Cwyr gwenyn	
— Cwyr esparto	
— Cwyr candelila	
— Deumethylpolysilocsan	Heb fod yn fwy nag 1mg/dm <sup>2</sup> o'r araen ar yr ochr sydd mewn cysylltiad â bwyd.
— Olew ffa soia epocsidiedig (cynnwys ocsiran 6 i 8%)	
— Cwyrâu microgrisialog a pharaffin puredig	
— Pentaerythritol tetrastearad	
— Mono a bis(octadecyldeuethylenocsid)-ffosffadau	Heb fod yn fwy na 0.2mg/dm <sup>2</sup> o'r araen ar yr ochr sydd mewn cysylltiad â bwyd.
— Asidau aliffatig (C <sub>8</sub> i C <sub>20</sub> ) wedi eu hestereiddio gyda mono- neu di-(2-hydrocsiethyl)amin	
— 2- a 3-tert.bwtyl-4-hydrocsianisol [= hydrocsianisol bwtyleiddiedig — BHA]	Heb fod yn fwy na 0.06mg/dm <sup>2</sup> o'r araen ar yr ochr sydd mewn cysylltiad â bwyd.
— 2,6-di-tert.bwtyl-4-methylphenol [= hydrocsitolwên bwtyleiddiedig — BHT]	Heb fod yn fwy na 0.06mg/dm <sup>2</sup> o'r araen ar yr ochr sydd mewn cysylltiad â bwyd.
— Deu-n-octyltin-bis(2-ethylhecsyl) malead	Heb fod yn fwy na 0.06mg/dm <sup>2</sup> o'r araen ar yr ochr sydd mewn cysylltiad â bwyd.
5. <i>Toddyddion</i>	Ni chaiff cyfanswm maint y sylweddau fod yn fwy na 0.6mg/dm <sup>2</sup> o'r araen ar yr ochr sydd mewn cysylltiad â bwyd.
— Bwtyl asetat	
— Ethyl asetat	
— Isobwtyl asetat	
— Isopropyl asetat	
— Propyl asetat	
— Aseton	
— 1-bwtanol	
— Ethanol	
— 2-bwtanol	
— 2-propanol	
— 1-propanol	
— Cylchohecsan	
— Ethylenglycol monobwtyl ether	
— Ethylenglycol monobwtyl ether asetat	
— Methyl ethyl ceton	
— Methyl isobwtyl ceton	
— Tetrahydroffwran	

— Tolŵen	Heb fod yn fwy na 0.06mg/dm <sup>2</sup> o'r araen ar yr ochr sydd mewn cysylltiad â bwyd.”
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Atodlen 4A newydd i Reoliadau Ychwanegion, Cyflasynnau, Ensymau a Thoddyddion Echdynnu Bwyd (Cymru) 2013

## “ATODLEN 4A

Rheoliadau 10, 11 a 14

Toddyddion echdynnu y caniateir eu defnyddio wrth brosesu deunyddiau crai, bwyd, cyfansoddion bwyd neu gynhwysion bwyd

Tabl 1

Toddyddion echdynnu i'w defnyddio mewn cydymffurfedd ag arferion gweithgynhyrchu da at bob diben<sup>(1)</sup>

<i>Enw:</i>
Propan
Bwtan
Ethyl Asetad
Ethanol
Carbon deuocsid
Aseton <sup>(2)</sup>
Ocsid nitraidd

<sup>(1)</sup> Ystyrir bod todydd echdynnu yn cael ei ddefnyddio mewn cydymffurfedd ag arfer gweithgynhyrchu da os nad yw ei ddefnyddio yn arwain at bresenoldeb gweddillion neu ddeilliadau ond mewn meintiau na ellir eu hosgoi yn dechnegol nad ydynt yn peri unrhyw berygl i iechyd dynol.

<sup>(2)</sup> Ni chaniateir defnyddio Aseton wrth buro olew gweisgion olewydd.

Tabl 2

Toddyddion echdynnu y pennir amodau defnyddio ar eu cyfer

<i>Enw</i>	<i>Amodau defnyddio (disgrifiad cryno o'r echdynnu)</i>	<i>Terfynau gweddillion uchaf yn y bwyd a echdynnwyd neu'r cynhwysyn bwyd a echdynnwyd</i>
Hecsan <sup>(1)</sup>	Cynhyrchu neu ffracsiynu brasterau ac olewau a chynhyrchu menyn coco	1 mg/kg yn y braster neu'r olew neu'r menyn coco
	Paratoi cynhyrchion protein wedi eu dadfrastereiddio a blodiau wedi eu dadfrastereiddio	10 mg/kg yn y bwyd sy'n cynnwys y cynhyrchion protein wedi eu dadfrastereiddio a'r blodiau wedi eu dadfrastereiddio
		30 mg/kg yn y cynhyrchion soia wedi eu dadfrastereiddio fel y'u gwerthir i'r defnyddiwr terfynol
	Paratoi egin grawn wedi eu dadfrastereiddio	5 mg/kg yn yr egin grawn wedi eu dadfrastereiddio

Methyl asetat	Dadgaffeineiddio coffi a the, neu ddileu elfennau llidus a chwerw ohonynt	20 mg/kg yn y coffi neu'r te
	Cynhyrchu siwgr o driagl	1 mg/kg yn y siwgr
Ethylmethylceton <sup>(2)</sup>	Ffracsiynu brasterau ac olewau	5 mg/kg yn y braster neu'r olew
	Dadgaffeineiddio coffi a the, neu ddileu elfennau llidus a chwerw ohonynt	20 mg/kg yn y coffi neu'r te
Deucloromethan	Dadgaffeineiddio coffi a the, neu ddileu elfennau llidus a chwerw ohonynt	2 mg/kg yn y coffi wedi ei rostio a 5 mg/kg yn y te
Methanol	At bob defnydd	10 mg/kg
Propan-2-ol	At bob defnydd	10 mg/kg
Deumethyl ether	Paratoi cynhyrchion protein anifeiliaid wedi eu dadfrastereiddio gan gynnwys gelatin <sup>(3)</sup>	0.009 mg/kg yn y cynhyrchion protein anifeiliaid wedi eu dadfrastereiddio gan gynnwys gelatin
	Paratoi collagen <sup>(4)</sup> a deilliadau collagen, ac eithrio gelatin	3 mg/kg yn y collagen a'r deilliadau collagen, ac eithrio gelatin

<sup>(1)</sup> Ystyr Hecsan yw cynnyrch masnachol ar ffurf hydrocarbonau dirlawn anghylchol sy'n cynnwys chwe atom carbon ac yn distyllu rhwng 64 °C a 70 °C. Ni chaniateir defnyddio Hecsan ac Ethylmethylceton ar y cyd.

<sup>(2)</sup> Ni chaiff y lefel o n-Hecsan yn y toddydd hwn fod yn fwy na 50 mg/kg. Ni chaniateir defnyddio Hecsan ac Ethylmethylceton ar y cyd.

<sup>(3)</sup> Ystyr 'Gelatin' yw protein naturiol, toddadwy, sy'n gelio neu nad yw'n gelio, a geir drwy hydrolysis rhannol collagen a gynhyrchir o esgryn, crwyn, tendonau a gewynnau anifeiliaid, yn unol â gofynion perthnasol Rheoliad (EC) Rhif 853/2004 Senedd Ewrop a'r Cyngor sy'n gosod rheolau hylendid penodol ar gyfer bwyd sy'n dod o anifeiliaid.

<sup>(4)</sup> Ystyr 'Collagen' yw'r cynnyrch sy'n seiliedig ar brotein sy'n deillio o esgryn, crwyn a thendonau anifeiliaid a weithgynhyrchir yn unol â gofynion perthnasol Rheoliad (EC) Rhif 853/2004.

**Tabl 3**

**Toddyddion echdynnu y mae amodau defnyddio wedi eu pennu ar eu cyfer**

<i>Enw</i>	<i>Terfynau gweddillion uchaf yn y bwyd oherwydd defnyddio toddyddion echdynnu wrth baratoi cyflasynnau o ddeunyddiau cyflasau naturiol</i>
Deuethyl ether	2 mg/kg
Hecsan <sup>(1)</sup>	1 mg/kg
Cylchohecsan	1 mg/kg
Methyl asetat	1 mg/kg
Bwtan-1-ol	1 mg/kg
Bwtan-2-ol	1 mg/kg
Ethylmethylceton <sup>(1)</sup>	1 mg/kg
Deucloromethan	0.02 mg/kg
Propan-1-ol	1 mg/kg

1,1,1,2-tetraffloroethan	0.02 mg/kg
Methanol	1.5 mg/kg
Propan-2-ol	1 mg/kg

<sup>(1)</sup> Ni chaniateir defnyddio Hecsan ac Ethylmethylceton ar y cyd.”

Atodlenni 1A, 1B ac 1C newydd i Reoliadau Bwyd Anifeiliaid  
(Cyfansoddiad, Marchnata a Defnydd) (Cymru) 2016

## “ATODLEN 1A

Categoriâu o ddeunyddiau bwyd anifeiliaid y caniateir eu dynodi yn lle  
deunyddiau bwyd anifeiliaid unigol

<i>Disgrifiad o'r categori</i>	<i>Diffiniad</i>
1. Cig a deunyddiau bwyd sy'n dod o anifeiliaid	— Yr holl rannau cigog o anifeiliaid tir gwaed cynnes a gigyddwyd, yn ffres neu wedi eu cadw drwy driniaeth briodol, a — Yr holl gynhyrchion a deilliadau o brosesu carcas neu rannau o garcas anifeiliaid tir gwaed cynnes.
2. Llaeth a deunyddiau bwyd sy'n dod o laeth	Pob cynnyrch llaeth, yn ffres neu wedi eu cadw drwy driniaeth briodol, a deilliadau o brosesu'r cynhyrchion hynny.
3. Wyau a deunyddiau bwyd sy'n dod o wyau	Pob cynnyrch wyau, yn ffres neu wedi eu cadw drwy driniaeth briodol, a deilliadau o brosesu'r cynhyrchion hynny.
4. Olewau a brasterau	Pob olew a braster anifeiliaid a llysiau.
5. Burumau	Pob burum, y mae eu celloedd wedi eu lladd a'u sychu.
6. Pysgod a deunyddiau bwyd sy'n dod o bysgod	Pysgod neu rannau o bysgod, yn ffres neu wedi eu cadw drwy driniaeth briodol, a deilliadau o brosesu'r cynhyrchion hynny.
7. Ydau	Pob math o yd, ni waeth sut y'i cyflwynir, neu gynhyrchion a wnaed o'r endosberm startshlyd.
8. Llysiau	Pob math o llysiau a chodlysiau, yn ffres neu wedi eu cadw drwy driniaeth briodol.
9. Deunyddiau bwyd sy'n dod o llysiau	Deilliadau o ganlyniad i drin cynnyrch llysiau, yn enwedig grawn, llysiau, codlysiau a hadau olew.
10. Rhiniau protein llysiau	Pob cynnyrch sy'n dod o llysiau pan fo'r proteinau wedi eu crynhoi drwy broses ddigonol i gynnwys o leiaf 50% o brotein crai, fel y mae'n ymwneud â'r deunydd sych, ac y caniateir ei ailstrwythuro (gweadog).
11. Mwynau	Pob sylwedd anorganig sy'n addas ar gyfer bwyd anifeiliaid.
12. Siwgrau amrywiol	Pob math o siwgr.
13. Ffrwythau	Pob math o ffrwythau, yn ffres neu wedi eu cadw drwy driniaeth briodol.
14. Cnau	Pob cnewyllyn plisg.
15. Hadau	Pob math o hadau, fel y maent neu wedi eu gwasgu'n fras.
16. Algâu	Algâu, yn ffres neu wedi eu cadw drwy driniaeth briodol.



17. Molysgiaid a chramenogion	Pob math o folysgiaid, cramenogion neu bysgod cregyn, yn ffres neu wedi eu cadw drwy driniaeth briodol, a deilliadau o'u prosesu.
18. Pryfed	Pob math o bryfed ar bob cam o'u datblygiad.
19. Cynnyrch siop fara	Pob math o fara, cacennau, bisgedi a chynnyrch pasta.

## ATODLEN 1B

Rheoliadau 15 a 15A

### Y lefelau uchaf o sylweddau annymunol

**Tabl 1**

**Halogion anorganig a chyfansoddion nitrogenaidd**

<i>Y sylwedd annymunol</i>	<i>Cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid</i>	<i>Uchafswm cynnwys mewn mg/kg (rhannau y filiwn) mewn perthynas â bwyd anifeiliaid sydd â chynnwys lleithder o 12%</i>
<b>1. Arsenig<sup>(1)</sup></b>	<b>Deunyddiau bwyd anifeiliaid</b>	2
	ac eithrio:	
	— blawd a wnaed o laswellt, blawd a wnaed o liwsérn sych a blawd a wnaed o feillion sych, a mwydion betys siwgr sych a mwydion betys siwgr triagl sych;	4
	— soeg cnewyll palmwydd;	4
	— mawn, leonardit;	5
	— ffosffadau, algâu morol calchaid;	10
	— calsiwm carbonad; calsiwm a magnesiwm carbonad <sup>(2)</sup> , cregyn morol calchaid;	15
— magnesiwm ocsid, magnesiwm carbonad;	20	
— pysgod, anifeiliaid dyfrol eraill a chynhyrchion sy'n deillio ohonynt;	25	
— blawd gwymon a deunyddiau blawd sy'n deillio o wymon.	40	
	<b>Gronynnau haearn a ddefnyddir fel deunydd olrhain</b>	50
	<b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfansoddion elfennau hybrin</b>	30
	ac eithrio:	
— sylffad pentahydrad cwprig, carbonad cwprig, deucopr clorid trihydrocsid, carbonad fferrus, deumanganis clorid trihydrocsid;	50	
— sinc ocsid, ocsid manganisaidd, ocsid cwprig.	100	
	<b>Bwyd anifeiliaid cydategol</b>	4
	ac eithrio:	

	— bwyd anifeiliaid mwynol;	12
	— bwyd anifeiliaid cydategol ar gyfer anifeiliaid anwes sy'n cynnwys pysgod, anifeiliaid dyfrol eraill a chynhyrchion sy'n deillio ohonynt a/neu flawd gwymon a deunyddiau blawd sy'n deillio o wymon;	10
	— fformiweiddiadau cyflenwi hirdymor o fwyd anifeiliaid at ddibenion maethol penodol sydd â chrynodiad o elfennau hybrin sy'n uwch na 100 gwaith y cynnwys uchaf sefydledig mewn bwyd anifeiliaid cyflawn.	30
	<b>Bwyd anifeiliaid cyflawn</b>	2
	ac eithrio:	
	— bwyd anifeiliaid cyflawn ar gyfer pysgod ac anifeiliaid ffwr;	10
	— bwyd anifeiliaid cyflawn ar gyfer anifeiliaid anwes sy'n cynnwys pysgod, anifeiliaid dyfrol eraill a chynhyrchion sy'n deillio ohonynt a/neu flawd gwymon a deunyddiau blawd sy'n deillio o wymon.	10
2. Cadmiwm	<b>Deunyddiau bwyd anifeiliaid sy'n dod o lysiau</b>	1
	<b>Deunyddiau bwyd anifeiliaid sy'n dod o anifeiliaid</b>	2
	<b>Deunyddiau bwyd anifeiliaid sy'n dod o fwynau</b>	2
	ac eithrio:	
	— ffosffadau.	10
	<b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfansoddion elfennau hybrin</b>	10
	ac eithrio:	
	— cwprig ocsid, ocsid manganaidd, sinc ocsid a monohydrad sylffad manganaidd.	30
<b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfryngau rhwymo a chyfryngau gwrthdalpio</b>	2	
<b>Rhag-gymysgeddau<sup>(3)</sup></b>	15	
<b>Bwyd anifeiliaid cydategol</b>	0.5	
ac eithrio:		
— bwyd anifeiliaid mwynol;		
— sy'n cynnwys < 7% o ffosfforws <sup>(4)</sup> ;	5	
— sy'n cynnwys ≥ 7% o ffosfforws <sup>(4)</sup> ;	0.75 fesul 1% o ffosfforws <sup>(4)</sup> gydag uchafswm o 7.5	
— bwyd anifeiliaid cydategol ar gyfer anifeiliaid anwes;	2	

	— fformiwleiddiadau cyflenwi hirdymor o fwyd anifeiliaid at ddibenion maethol penodol sydd â chrynodiad o elfennau hybrin sy'n uwch na 100 gwaith y cynnwys uchaf sefydledig mewn bwyd anifeiliaid cyflawn.	15
	<b>Bwyd anifeiliaid cyflawn</b> ac eithrio:	0.5
	— bwyd anifeiliaid cyflawn ar gyfer gwartheg (ac eithrio lloi), defaid (ac eithrio wŷn), geifr (ac eithrio mynnod) a physgod;	1
	— bwyd anifeiliaid cyflawn ar gyfer anifeiliaid anwes.	2
<b>3. Fflworin<sup>(5)</sup></b>	<b>Deunyddiau bwyd anifeiliaid</b> ac eithrio:	150
	— Deunyddiau bwyd anifeiliaid sy'n dod o anifeiliaid ac eithrio cramenogion morol megis cril morol; cregyn morol calchaid;	500
	— cramenogion morol megis cril morol;	3,000
	— ffosffadau;	2,000
	— calsiwm carbonad, calsiwm a magnesiwm carbonad <sup>(2)</sup> ;	350
	— magnesiwm ocsid;	600
	— algâu morol calchaid.	1,250
	<b>Fermiewlit (E 561)</b>	3,000
	<b>Bwyd anifeiliaid cydategol</b> — sy'n cynnwys ≤ 4 % o ffosfforws <sup>(4)</sup> ; — sy'n cynnwys > 4 % o ffosfforws <sup>(4)</sup> .	500 125 fesul 1% o ffosfforws <sup>(4)</sup>
	<b>Bwyd anifeiliaid cyflawn</b> ac eithrio:	150
	— bwyd anifeiliaid cyflawn ar gyfer moch;	100
	— bwyd anifeiliaid cyflawn ar gyfer dofednod (ac eithrio cywion) a physgod;	350
	— bwyd anifeiliaid cyflawn ar gyfer cywion;	250
	— bwyd anifeiliaid cyflawn ar gyfer gwartheg, defaid a geifr	
	— yn ystod llaetha;	30
	— fel arall.	50
<b>4. Plwm<sup>(6)</sup></b>	<b>Deunyddiau bwyd anifeiliaid</b> ac eithrio:	10
	— porthiant <sup>(7)</sup>	30
	— ffosffadau, algâu morol calchaid a chregyn morol calchaid;	15
	— calsiwm carbonad, calsiwm a magnesiwm carbonad <sup>(2)</sup> ;	20
	— burumau.	5

	<p><b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfansoddion elfennau hybrin</b></p> <p>ac eithrio:</p> <ul style="list-style-type: none"> <li>— sinc ocsid; 400</li> <li>— ocsid manganaidd, carbonad fferrus, cwprig carbonad, copr (I) ocsid. 200</li> </ul>	100
	<p><b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfryngau rhwymo a chyfryngau gwrthdalpio</b></p> <p>ac eithrio:</p> <ul style="list-style-type: none"> <li>— clinoptilolit o darddiad folcanig, natrolit-ffonolit. 60</li> </ul> <p><b>Rhag-gymysgeddau<sup>(3)</sup></b> 200</p>	30
	<p><b>Bwyd anifeiliaid cydategol</b></p> <p>ac eithrio:</p> <ul style="list-style-type: none"> <li>— bwyd anifeiliaid mwynol; 15</li> <li>— fformiwleiddiadau cyflenwi hirdymor o fwyd anifeiliaid at ddibenion maethol penodol sydd â chrynodiad o elfennau hybrin sy'n uwch na 100 gwaith y cynnwys uchaf sefydledig mewn bwyd anifeiliaid cyflawn. 60</li> </ul>	10
	<b>Bwyd anifeiliaid cyflawn</b>	5
<b>5. Mercwri<sup>(8)</sup></b>	<p><b>Deunyddiau bwyd anifeiliaid</b></p> <p>ac eithrio:</p> <ul style="list-style-type: none"> <li>— pysgod, anifeiliaid dyfrol eraill a chynhyrchion sy'n deillio ohonynt a fwriedir ar gyfer cynhyrchu bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid sy'n cynhyrchu bwyd; 0.5</li> <li>— pysgod, anifeiliaid dyfrol eraill a chynhyrchion sy'n deillio ohonynt a fwriedir ar gyfer cynhyrchu bwyd anifeiliaid cyfansawdd ar gyfer cŵn, cathod, pysgod addurnol ac anifeiliaid ffwr; 1.0<sup>(9)</sup></li> <li>— pysgod, anifeiliaid dyfrol eraill a chynhyrchion sy'n deillio ohonynt fel deunydd bwyd anifeiliaid gwlyb mewn tun ar gyfer bwydo cŵn a chathod yn uniongyrchol; 0.3</li> <li>— calsiwm carbonad; calsiwm a magnesiwm carbonad<sup>(2)</sup>. 0.3</li> </ul>	0.1
	<p><b>Bwyd anifeiliaid cyfansawdd</b></p> <p>ac eithrio:</p> <ul style="list-style-type: none"> <li>— bwyd anifeiliaid mwynol; 0.2</li> <li>— bwyd anifeiliaid cyfansawdd ar gyfer pysgod; 0.2</li> <li>— bwyd anifeiliaid cyfansawdd ar gyfer cŵn, cathod, pysgod addurnol ac anifeiliaid ffwr. 0.3</li> </ul>	0.1
<b>6. Nitraid<sup>(10)</sup></b>	<p><b>Deunyddiau bwyd anifeiliaid</b></p> <p>ac eithrio:</p>	15

	— blawd pysgod; — silwair; — cynhyrchion a sgil-gynhyrchion betys siwgr a chansen siwgr a chynhyrchion a sgil-gynhyrchion cynhyrchu startsh a diodydd alcohol.	30 — —
	<b>Bwyd anifeiliaid cyflawn</b> ac eithrio: — bwyd anifeiliaid cyflawn ar gyfer cŵn a chathod sydd â chynnwys lleithder o fwy nag 20%.	15 —
<b>7. Melamin<sup>(11)</sup></b>	<b>Bwyd anifeiliaid</b> ac eithrio: — bwyd anifeiliaid anwes tun; — yr ychwanegion bwyd anifeiliaid a ganlyn: — asid asetig gwanidino (GAA); — wrea; — biwret.	2.5 2.5 <sup>(12)</sup> 20 — —

<sup>(1)</sup> Mae'r lefelau uchaf yn cyfeirio at gyfanswm yr arsenig.

<sup>(2)</sup> Mae calsiwm a magnesiwm carbonad yn cyfeirio at y cymysgedd naturiol o galsiwm carbonad a magnesiwm carbonad fel y'i disgrifir yn Rheoliad y Comisiwn (EU) Rhif 68/2013 ar y Catalog o ddeunyddiau bwyd anifeiliaid.

<sup>(3)</sup> Mae'r lefel uchaf a bennwyd ar gyfer rhag-gymysgeddau yn ystyried yr ychwanegion sydd â'r lefel uchaf o blwm a chadmiwm ac nid sensitifwydd y rhywogaethau gwahanol o anifeiliaid i blwm a chadmiwm. Fel y darperir yn Erthygl 16 o Reoliad 1831/2003, er mwyn diogelu iechyd anifeiliaid ac iechyd y cyhoedd, y sawl sy'n cynhyrchu rhag-gymysgeddau sy'n gyfrifol am sicrhau, yn ogystal â chydymffurfio â'r lefelau uchaf ar gyfer rhag-gymysgeddau, fod y cyfarwyddiadau ar gyfer defnyddio'r rhag-gymysgedd yn unol â'r lefelau uchaf ar gyfer bwyd anifeiliaid cydategol a bwyd anifeiliaid cyflawn.

<sup>(4)</sup> Mae % y ffosfforws mewn perthynas â bwyd anifeiliaid sydd â chynnwys lleithder o 12%.

<sup>(5)</sup> Mae lefelau uchaf yn cyfeirio at fesuriad dadansoddol o fflworin, pan fo echdynnu yn cael ei gyflawni gydag asid hydroclorig 1 N am 20 munud ar dymheredd amgylchol. Gellir defnyddio gweithdrefnau echdynnu cyfwerth pan ellir dangos bod y weithdrefn echdynnu honno a ddefnyddir yr un mor effeithiol.

<sup>(6)</sup> I fesur plwm mewn clai caolinitig ac mewn bwyd anifeiliaid sy'n cynnwys clai caolinitig, mae'r lefel uchaf yn cyfeirio at fesuriad dadansoddol o blwm, pan fo echdynnu wedi ei gyflawni mewn asid nitrig (5% p/p) am 30 munud ar dymheredd berwi. Gellir defnyddio gweithdrefnau echdynnu cyfwerth pan ellir dangos bod y weithdrefn echdynnu honno a ddefnyddir yr un mor effeithiol.

<sup>(7)</sup> Mae porthiant yn cynnwys cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid megis gwellt, silwair, porfa ffres, etc.

<sup>(8)</sup> Mae'r lefelau uchaf yn cyfeirio at gyfanswm y mercwri.

<sup>(9)</sup> Mae'r lefel uchaf yn gymwys ar sail pwysau gwlyb.

<sup>(10)</sup> Mae'r lefelau uchaf wedi eu mynegi fel sodiwm nitrad.

<sup>(11)</sup> Mae'r lefel uchaf yn cyfeirio at felamin yn unig. Bydd cynnwys y cyfansoddion sy'n perthyn o ran strwythur, sef asid syanwrig, ammelin ac ammelid yn y lefel uchaf yn cael ei ystyried yn ddiweddarach.

<sup>(12)</sup> Mae'r lefel uchaf yn gymwys i fwyd anifeiliaid anwes tun fel y'i gwerthir.

## Tabl 2

### Mycotocsinau

<i>Y sylwedd annymunol</i>	<i>Cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid</i>	<i>Uchafswm cynnwys mewn mg/kg (rhannau y filiwn) mewn perthynas â bwyd anifeiliaid sydd â chynnwys lleithder o 12%</i>
<b>1. Aflatocsin B<sub>1</sub></b>	<b>Deunyddiau bwyd anifeiliaid</b>	0.02
	<b>Bwyd anifeiliaid cydategol a bwyd anifeiliaid cyflawn</b>	0.01
	ac eithrio: — bwyd anifeiliaid cyfansawdd ar gyfer gwartheg godro a lloi, defaid godro ac ŵyn, geifr godro a mynnod, perchyll a dofednod ifanc,	0.005
	— bwyd anifeiliaid cyfansawdd ar gyfer gwartheg (ac eithrio gwartheg godro a lloi), defaid (ac eithrio defaid godro ac ŵyn), geifr (ac eithrio geifr godro a mynnod), moch (ac eithrio perchyll) a dofednod (ac eithrio anifeiliaid ifanc).	0.02
<b>2. Mallryg (<i>Claviceps purpurea</i>)</b>	<b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd sy'n cynnwys grawn heb eu malu</b>	1000

**Tabl 3**

**Tocsinau cynhenid planhigion**

<i>Y sylwedd annymunol</i>	<i>Cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid</i>	<i>Uchafswm cynnwys mewn mg/kg (rhannau y filiwn) mewn perthynas â bwyd anifeiliaid sydd â chynnwys lleithder o 12%</i>
<b>1. Gossypol rhydd</b>	<b>Deunyddiau bwyd anifeiliaid</b>	20
	ac eithrio: — hadau cotwm;	6000
	— dwysfwyd hadau cotwm a blawd hadau cotwm.	1200
	<b>Bwyd anifeiliaid cyflawn</b>	20
	ac eithrio: — bwyd anifeiliaid cyflawn ar gyfer gwartheg (ac eithrio lloi);	500
	— bwyd anifeiliaid cyflawn ar gyfer defaid (ac eithrio ŵyn) a geifr (ac eithrio mynnod);	300
— bwyd anifeiliaid cyflawn ar gyfer dofednod (ac eithrio ieir dodwy) a lloi;	100	
— bwyd anifeiliaid cyflawn ar gyfer cwningod, ŵyn, mynnod a moch (ac eithrio perchyll).	60	
<b>2. Asid hydrosyanig</b>	<b>Deunyddiau bwyd anifeiliaid</b> ac eithrio:	50

	— hadau llin;	250
	— dwysfwydydd hadau llin;	350
	— cynhyrchion manioc a dwysfwydydd almon.	100
	<b>Bwyd anifeiliaid cyflawn</b>	50
	ac eithrio:	
	— bwyd anifeiliaid cyflawn ar gyfer ieir ifanc (< 6 wythnos).	10
<b>3. Theobromin</b>	<b>Bwyd anifeiliaid cyflawn</b>	300
	ac eithrio:	
	— bwyd anifeiliaid cyflawn ar gyfer moch;	200
	— bwyd anifeiliaid cyflawn ar gyfer cŵn, cwningod, ceffylau ac anifeiliaid ffwr.	50
<b>4. Fynl thioocsasolidon (5-finyloccasolidin-2-thion)</b>	<b>Bwyd anifeiliaid cyflawn ar gyfer dofednod</b>	1000
	ac eithrio:	
	— bwyd anifeiliaid cyflawn ar gyfer ieir dodwy.	500
<b>5. Olew mwstard anweddol<sup>(1)</sup></b>	<b>Deunyddiau bwyd anifeiliaid</b>	100
	ac eithrio:	
	— Hadau camelina a chynhyrchion sy'n deillio ohonynt <sup>(2)</sup> , cynhyrchion sy'n deillio o hadau mwstard <sup>(2)</sup> , hadau rêp a chynhyrchion sy'n deillio ohonynt.	4000
	<b>Bwyd anifeiliaid cyflawn</b>	150
	ac eithrio:	
	— bwyd anifeiliaid cyflawn ar gyfer gwartheg (ac eithrio lloi), defaid (ac eithrio ŵyn) a geifr (ac eithrio mynnod);	1000
	— bwyd anifeiliaid cyflawn ar gyfer moch (ac eithrio perchyll) a dofednod.	500

<sup>(1)</sup> Mae'r lefelau uchaf wedi eu mynegi fel alyl isothiosyanad.

<sup>(2)</sup> Ar gais gan yr awdurdodau cymwys, rhaid i'r gweithredwr cyfrifol wneud dadansoddiad i ddangos bod cynnwys cyfanswm y glwcosinoladau yn is na 30 mmol/kg. Y dull dadansoddi yw cyfeirnod BS EN ISO 9167:2019 "Rapeseed and rapeseed meals. Determination of glucosinolates content. Method using high-performance liquid chromatography". Cyhoeddwyd gan y Sefydliad Safonau Prydeinig ar 30 Mehefin 2019 (ISBN 978 0 539 07739 1). Ar gael gan y Sefydliad Safonau Prydeinig <https://knowledge.bsigroup.com>.

**Tabl 4**

**Cyfansoddion organoclorin (ac eithrio deuocsinau a biffenylau polychlorinedig (PCBau))**

<i>Y sylwedd annymunol</i>	<i>Cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid</i>	<i>Uchafswm cynnwys mewn mg/kg (rhannau y filiwn) mewn perthynas â bwyd anifeiliaid sydd â chynnwys lleithder o 12%</i>
<b>1. Aldrin<sup>(1)</sup></b>	<b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b>	0.01 <sup>(2)</sup>

	ac eithrio: — brasterau ac olewau; — bwyd anifeiliaid cyfansawdd ar gyfer pysgod.	0.1 <sup>(2)</sup> 0.02 <sup>(2)</sup>
<b>2. Dieldrin<sup>(1)</sup></b>	<b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b> ac eithrio: — brasterau ac olewau; — bwyd anifeiliaid cyfansawdd ar gyfer pysgod.	0.1 <sup>(2)</sup> 0.02 <sup>(2)</sup>
<b>3. Camffector (tocsaffen) – swm cytrasau dangosol CHB 26, 50 a 62<sup>(3)</sup></b>	<b>Pysgod, anifeiliaid dyfrol eraill a chynhyrchion sy'n deillio ohonynt</b> ac eithrio: — olew pysgod.	0.02 0.2
	<b>Bwyd anifeiliaid cyflawn ar gyfer pysgod</b>	0.05
<b>4. Clordan (swm cis-isomerau a thraws-isomerau ac ocsiclordan, a fynegir fel clordan)</b>	<b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b> ac eithrio: — brasterau ac olewau.	0.02 0.05
	<b>5. DDT (swm DDT-, DDD- (neu TDE-) a DDE-isomerau, a fynegir fel DDT)</b>	<b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b> ac eithrio: — brasterau ac olewau.
<b>6. Endoswlffan (swm alffa-isomerau a beta-isomerau ac endoswlffansylffad a fynegir fel endoswlffan)</b>	<b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b> ac eithrio: — hadau cotwm a chynhyrchion sy'n deillio o'u prosesu, ac eithrio olew hadau cotwm crai;	0.1 0.3
	— ffa soia a chynhyrchion sy'n deillio o'u prosesu, ac eithrio olew ffa soia crai	0.5
	— olew llysiau crai;	1.0
	— bwyd anifeiliaid cyflawn ar gyfer pysgod ac eithrio ar gyfer Salmonidau;	0.005
	— bwyd anifeiliaid cyflawn ar gyfer Salmonidau.	0.05
<b>7. Endrin (swm endrin a delta-cetoi-endrin, a fynegir fel endrin)</b>	<b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b> ac eithrio: — brasterau ac olewau.	0.01 0.05
	<b>8. Heptaclor (swm heptaclor a heptacloropocsid, a fynegir fel heptaclor)</b>	<b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b> ac eithrio: — brasterau ac olewau.



<b>9. Heptaclorobensen (HCB)</b>	<b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b>	0.01	
	ac eithrio: — brasterau ac olewau.	0.2	
<b>10. Heptaclorocycloheptan (HCH)</b>			
	— alffa-isomerau	<b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b>	0.02
		ac eithrio: — brasterau ac olewau.	0.2
	— beta-isomerau	<b>Deunyddiau bwyd anifeiliaid</b>	0.01
		ac eithrio: — brasterau ac olewau.	0.1
	<b>Bwyd anifeiliaid cyfansawdd</b>	0.01	
	ac eithrio: — bwyd anifeiliaid cyfansawdd ar gyfer gwartheg godro.	0.005	
— gama-isomerau	<b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b>	0.2	
	ac eithrio: — brasterau ac olewau.	2.0	

<sup>(1)</sup> A fynegir fel dieltrin yn unigol neu ar y cyd.

<sup>(2)</sup> Lefel uchaf ar gyfer aldrin a dieltrin, yn unigol neu ar y cyd, a fynegir fel dieltrin.

<sup>(3)</sup> System rifo yn ôl Parlar, yn rhagddodedig gan naill ai CHB neu 'Parlar':

- CHB 26: 2-endo,3-ecso,5-endo,6-ecso,8,8,10,10-octoclorobornan,
- CHB 50: 2-endo,3-ecso,5-endo,6-ecso,8,8,9,10,10-nonaclorobornan,
- CHB 62: 2,2,5,5,8,9,9,10,10-nonaclorobornan.

Tabl 5 (Rhan 1)

Deuocsinau a biffenylau polyclorinedig (PCBau)

<i>Y sylwedd annymunol</i>	<i>Cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid</i>	<i>Uchafswm cynnwys mewn ng WHO-PCDD/F-TEQ/kg (rhannau y triliwn)<sup>(1)</sup> mewn perthynas â bwyd anifeiliaid sydd â chynnwys lleithder o 12%</i>
<p><b>1. Deuocsinau (swm deuocsinau deubenso-<i>para</i> polyclorinedig (PCDDau) a deubensoffwrannau polyclorinedig (PCDFau) wedi eu mynegi yn lefelau gwenwynig cyfatebol Sefydliad Iechyd y Byd (WHO), gan ddefnyddio'r WHO-TEFau (ffactorau cyfwerthedd gwenwynig, 2005)<sup>(2)</sup>)</b></p>	<p><b>Deunyddiau bwyd anifeiliaid sy'n dod o blanhigion</b> ac eithrio:</p> <p>— olewau llysiau a'u sgil-gynhyrchion.</p>	<p>0.75</p> <p>0.75</p>
	<p><b>Deunyddiau bwyd anifeiliaid sy'n dod o fwynau</b></p>	0.75
	<p><b>Deunyddiau bwyd anifeiliaid sy'n dod o anifeiliaid:</b></p> <p>— Braster anifeiliaid, gan gynnwys braster laeth a braster wyau;</p>	1.50
	<p>— Cynhyrchion eraill anifeiliaid tir gan gynnwys laeth a chynhyrchion laeth ac wyau a chynhyrchion wyau;</p>	0.75
	<p>— Olew pysgod;</p>	5.0
	<p>— Pysgod, anifeiliaid dyfrol eraill, a chynhyrchion sy'n deillio ohonynt ac eithrio olew pysgod, protein pysgod wedi ei hydroleiddio sy'n cynnwys mwy na 20% o fraster<sup>(3)</sup> a blawd cramenogion;</p>	1.25
	<p>— Protein pysgod wedi ei hydroleiddio sy'n cynnwys mwy na 20% o fraster a blawd cramenogion.</p>	1.75
	<p><b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfryngau rhwymo a chyfryngau gwrthdalpio<sup>(4)</sup></b></p>	0.75
	<p><b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfansoddion elfennau hybrin</b></p>	1.0
	<p><b>Rhag-gymysgeddau</b></p>	1.0
<p><b>Bwyd anifeiliaid cyfansawdd</b></p>	0.75	

	ac eithrio: — bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid anwes a physgod; — bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid ffwr.	1.75 —
<i>Y sylwedd annymunol</i>	<i>Cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid</i>	<i>Uchafswm cynnwys mewn ng WHO- PCDD/F-PCB- TEQ/kg (rhannau y triliwn)<sup>(1)</sup> mewn perthynas â bwyd anifeiliaid sydd â chynnwys lleithder o 12%</i>
<b>2. Swm deuocsinau a biffenylau polyclorinedig (PCBau) sy'n debyg i ddeuocsinau (swm deubenso-<i>para</i>-deuocsinau polyclorinedig (PCDDau), deubensoffwrannau polyclorinedig (PCDFau) a biffenylau polyclorinedig (PCBau) wedi eu mynegi yn lefelau gwenwynig cyfatebol Sefydliad Iechyd y Byd (WHO), gan ddefnyddio'r WHO-TEFau (ffactorau cyfwerthedd gwenwynig, 2005)<sup>(2)</sup></b>	<b>Deunyddiau bwyd anifeiliaid sy'n dod o blanhigion</b> ac eithrio: — olewau llysiâu a'u sgil-gynhyrchion.	1.25 1.5
	<b>Deunyddiau bwyd anifeiliaid sy'n dod o fwynau</b>	1.0
	<b>Deunyddiau bwyd anifeiliaid sy'n dod o anifeiliaid:</b> — Braster anifeiliaid, gan gynnwys braster llaeth a braster wyau;	2.0
	— Cynhyrchion eraill anifeiliaid tir gan gynnwys llaeth a chynhyrchion llaeth ac wyau a chynhyrchion wyau;	1.25
	— Olew pysgod;	20.0
	— Pysgod, anifeiliaid dyfrol eraill, a chynhyrchion sy'n deillio ohonynt ac eithrio olew pysgod a phrotein pysgod wedi ei hydroleiddio sy'n cynnwys mwy na 20% o fraster <sup>(3)</sup> ;	4.0
	— Protein pysgod wedi ei hydroleiddio sy'n cynnwys mwy na 20% o fraster.	9.0
<b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfryngau rhwymo a chyfryngau gwrthdalpio<sup>(4)</sup></b>	1.5	

	<b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfansoddion elfennau hybrin</b>	1.5
	<b>Rhag-gymysgeddau</b>	1.5
	<b>Bwyd anifeiliaid cyfansawdd</b> ac eithrio: — bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid anwes a physgod; — bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid ffwr.	1.5 5.5 —
<i>Y sylwedd annymunol</i>	<i>Cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid</i>	<i>Uchafswm cynnwys mewn <math>\mu\text{g}/\text{kg}</math> (rhannau y biliwn) mewn perthynas â bwyd anifeiliaid sydd â chynnwys lleithder o 12%<sup>(1)</sup></i>
<b>3. Biffenylau polychlorinedig (PCBau) nad ydynt yn debyg i ddeuocsinau (swm PCB 28, PCB 52, PCB 101, PCB 138, PCB 153 a PCB 180 (ICES – 6)<sup>(1)</sup>)</b>	<b>Deunyddiau bwyd anifeiliaid sy'n dod o blanhigion</b>	10
	<b>Deunyddiau bwyd anifeiliaid sy'n dod o fwynau</b>	10
	<b>Deunyddiau bwyd anifeiliaid sy'n dod o anifeiliaid:</b> — Braster anifeiliaid, gan gynnwys braster llaeth a braster wyau;	10
	— Cynhyrchion eraill anifeiliaid tir gan gynnwys llaeth a chynhyrchion llaeth ac wyau a chynhyrchion wyau;	10
	— Olew pysgod;	175
	— Pysgod, anifeiliaid dyfrol eraill, a chynhyrchion sy'n deillio ohonynt ac eithrio olew pysgod a phrotein pysgod wedi ei hydroleiddio sy'n cynnwys mwy na 20% o fraster <sup>(5)</sup> ;	30
— Protein pysgod wedi ei hydroleiddio sy'n cynnwys mwy na 20% o fraster.	50	
	<b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfryngau rhwymo a chyfryngau gwrthdalpio<sup>(4)</sup></b>	10

	<b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfansoddion elfennau hybrin</b>	10
	<b>Rhag-gymysgeddau</b>	10
	<b>Bwyd anifeiliaid cyfansawdd</b> ac eithrio:	10
	— bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid anwes a physgod;	40
— bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid ffwr.	—	

(1) Crynodiadau arffin uchaf; cyfrifir crynodiadau arffin uchaf gan ragdybio bod holl werthoedd y cytrasau gwahanol islaw'r terfyn meintioliad yn gyfwerth â'r terfyn meintioliad.

(2) Gweler Tabl 5 (Rhan 2) ar gyfer TEFau (= ffactorau cyfwerthedd gwenwynig) ar gyfer deuocsinau, ffwrannau a biffenylau polychlorinedig (PCBau) sy'n debyg i ddeuocsinau: WHO-TEFau ar gyfer asesu risg i iechyd dynol yn seiliedig ar gasgliadau cyfarfod arbenigol Sefydliad Iechyd y Byd (WHO) – Rhaglen Ryngwladol ar Ddiogelwch Cemegol (IPCS) a gynhaliwyd yn Genefa ym mis Mehefin 2005 (Martin van den Berg et al., The 2005 World Health Organisation Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds. Toxicological Sciences 93(2), 223–241 (2006)).

(3) Nid yw pysgod ffres ac anifeiliaid dyfrol eraill a ddanfonir yn uniongyrchol ac a ddefnyddir heb brosesu rhyngol ar gyfer cynhyrchu bwyd anifeiliaid ar gyfer anifeiliaid ffwr yn ddarostyngedig i'r lefelau uchaf, tra bod lefelau uchaf o 3.5ng WHO-PCDD/F-TEQ/kg y cynnyrch a 6.5ng WHO-PCDD/F-PCB-TEQ/kg y cynnyrch yn gymwys i bysgod ffres a 20.0ng WHO-PCDD/F-PCB-TEQ/kg y cynnyrch yn gymwys i iau (afu) pysgod a ddefnyddir i fwydo yn uniongyrchol anifeiliaid anwes, anifeiliaid sw ac anifeiliaid syrcau neu a ddefnyddir fel deunydd bwyd anifeiliaid ar gyfer cynhyrchu bwyd anifeiliaid anwes. Ni chaniateir i gynhyrchion yr anifeiliaid hyn neu broteinau anifeiliaid wedi eu prosesu a gynhyrchir o'r anifeiliaid hyn (anifeiliaid ffwr, anifeiliaid anwes, anifeiliaid sw ac anifeiliaid syrcau) fynd i mewn i'r gadwyn fwyd, ac ni chaniateir eu bwydo i anifeiliaid fferm a gedwir, a besgir neu a fegir ar gyfer cynhyrchu bwyd.

(4) Mae'r lefel uchaf hefyd yn gymwys i'r ychwanegion bwyd anifeiliaid sy'n perthyn i'r grŵp swyddogaethol o sylwedddau ar gyfer rheoli halogi gan radioniwclidau a sylwedddau ar gyfer lleihau halogiad bwyd anifeiliaid gan fycotocsinau sydd hefyd yn perthyn i'r grwpiau swyddogaethol o gyfryngau rhwymo a chyfryngau gwrthdalpio.

(5) Nid yw pysgod ffres ac anifeiliaid dyfrol eraill a ddanfonir yn uniongyrchol ac a ddefnyddir heb brosesu rhyngol ar gyfer cynhyrchu bwyd anifeiliaid ar gyfer anifeiliaid ffwr yn ddarostyngedig i'r lefelau uchaf, tra bod lefelau uchaf o 75µg/kg y cynnyrch yn gymwys i bysgod ffres a 200µg/kg y cynnyrch yn gymwys i iau (afu) pysgod a ddefnyddir i fwydo yn uniongyrchol anifeiliaid anwes, anifeiliaid sw ac anifeiliaid syrcau neu a ddefnyddir fel deunydd bwyd anifeiliaid ar gyfer cynhyrchu bwyd anifeiliaid anwes. Ni chaniateir i gynhyrchion yr anifeiliaid hyn neu broteinau anifeiliaid wedi eu prosesu a gynhyrchir o'r anifeiliaid hyn (anifeiliaid ffwr, anifeiliaid anwes, anifeiliaid sw ac anifeiliaid syrcau) fynd i mewn i'r gadwyn fwyd, ac ni chaniateir eu bwydo i anifeiliaid fferm a gedwir, a besgir neu a fegir ar gyfer cynhyrchu bwyd.

**Tabl 5 (Rhan 2)**

**TEFau (= ffactorau cyfwerthedd gwenwynig) ar gyfer deuocsinau, ffwrannau a biffenylau polychlorinedig (PCBau) sy'n debyg i ddeuocsinau, at ddibenion Tabl 5.1 troednodyn (2)**

<i>Y cytras</i>	<i>Gwerth TEF</i>
<b>Deubenso-para-deuocsinau ('PCDDau') a Deubenso-para-ffwrannau (PCDFau)</b>	
2,3,7,8-TCDD	1

1,2,3,7,8-PeCDD	1
1,2,3,4,7,8-HxCDD	0.1
1,2,3,6,7,8-HxCDD	0.1
1,2,3,7,8,9-HxCDD	0.1
1,2,3,4,6,7,8-HpCDD	0.01
OCDD	0.0003
2,3,7,8-TCDF	0.1
1,2,3,7,8-PeCDF	0.03
2,3,4,7,8-PeCDF	0.3
1,2,3,4,7,8-HxCDF	0.1
1,2,3,6,7,8-HxCDF	0.1
1,2,3,7,8,9-HxCDF	0.1
2,3,4,6,7,8-HxCDF	0.1
1,2,3,4,6,7,8-HpCDF	0.01
1,2,3,4,7,8,9-HpCDF	0.01
OCDF	0.0003
<b>Biffenylau polyclorinedig (PCBau) sy'n debyg i ddeuocsinau: biffenylau polyclorinedig (PCBau) an-ortho + biffenylau polyclorinedig (PCBau) mono-ortho</b>	
<b>Biffenylau polyclorinedig (PCBau) an-ortho</b>	
PCB 77	0.0001
PCB 81	0.0003
PCB 126	0.1
PCB 169	0.03
<b>Biffenylau polyclorinedig (PCBau) mono-ortho</b>	
PCB 105	0.00003
PCB 114	0.00003
PCB 118	0.00003
PCB 123	0.00003
PCB 156	0.00003
PCB 157	0.00003
PCB 167	0.00003
PCB 189	0.00003
Defnyddir y talfyriadau a ganlyn: 'T' = tetra; 'Pe' = penta; 'Hx' = hecsa; 'Hp' = hepta; 'O' = octa; 'CDD' = clorodeubensodeuocsin; 'CDF' = clorodeubensoffwran; 'CB' = clorobiffenyl.	

**Tabl 6**

**Amhureddau botanegol niweidiol**

<i>Y sylwedd annymunol</i>	<i>Cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid</i>	<i>Uchafswm cynnwys mewn mg/kg (rhannau y filiwn) mewn perthynas â bwyd anifeiliaid sydd â chynnwys lleithder o 12%</i>

<p><b>1. Hadau chwyn a ffrwythau heb eu malu a heb eu gwasgu sy'n cynnwys alcaloidau, glycosidau neu sylweddau gwenwynig eraill ar wahân neu ar y cyd yn cynnwys:</b> — <i>Datura</i> sp.</p>	<p><b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b></p>	<p>3000  1000</p>
<p><b>2. <i>Crotalaria</i> spp.</b></p>	<p><b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b></p>	<p>100</p>
<p><b>3. Hadau a masglau <i>Ricinus communis</i> L., <i>Croton tiglium</i> L. ac <i>Abrus precatorius</i> L. yn ogystal â'u deilliadau wedi eu prosesu<sup>(1)</sup>, ar wahân neu ar y cyd</b></p>	<p><b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b></p>	<p>10<sup>(2)</sup></p>
<p><b>4. Mes ffawydd wedi eu dibliso — <i>Fagus sylvatica</i> L.</b></p>	<p><b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b></p>	<p>Ni chaiff hadau a ffrwythau yn ogystal â'u deilliadau wedi eu prosesu fod yn bresennol mewn bwyd anifeiliaid ond mewn meintiau sy'n rhy fach i fod yn fesuradwy.</p>
<p><b>5. Purghera — <i>Jatropha curcas</i> L.</b></p>	<p><b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b></p>	<p>Ni chaiff hadau a ffrwythau yn ogystal â'u deilliadau wedi eu prosesu fod yn bresennol mewn bwyd anifeiliaid ond mewn meintiau sy'n rhy fach i fod yn fesuradwy.</p>
<p><b>6. Hadau <i>Ambrosia</i> spp.</b></p>	<p><b>Deunyddiau bwyd anifeiliaid<sup>(3)</sup></b> ac eithrio: — Miled (grawn <i>Panicum miliaceum</i> L.) a sorgwm (grawn <i>Sorghum bicolor</i> (L) Moench s.l.) nas bwydir yn uniongyrchol i anifeiliaid<sup>(3)</sup>; — Bwyd anifeiliaid cyfansawdd sy'n cynnwys grawn a hadau heb eu malu.</p>	<p>50  200  50</p>

<p><b>7. Hadau:</b></p> <p>— Mwstard India — <i>Brassica juncea</i> (L.) Czern. a Coss. ssp. <i>integrifolia</i> (West.) Thell.</p> <p>— Mwstard Sarepta — <i>Brassica juncea</i> (L.) Czern. a Coss. ssp. <i>juncea</i></p> <p>— Mwstard Tsiena — <i>Brassica juncea</i> (L.) Czern. a Coss. ssp. <i>juncea</i> var. <i>lutea</i> Batalin</p> <p>— Mwstard du — <i>Brassica nigra</i> (L.) Koch</p> <p>— Mwstard Ethiopia — <i>Brassica carinata</i> A. Braun</p>	<p><b>Deunyddiau bwyd anifeiliaid a bwyd anifeiliaid cyfansawdd</b></p>	<p>Ni chaiff hadau fod yn bresennol mewn bwyd anifeiliaid ond mewn meintiau sy'n rhy fach i fod yn fesuradwy.</p>
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<sup>(1)</sup> I'r graddau y gellir mesur drwy ficrosgopeg ddadansoddol.

<sup>(2)</sup> Hefyd yn cynnwys darnau o blisg hadau.

<sup>(3)</sup> Pan ddarperir tystiolaeth ddigamsyniol bod y grawn a'r hadau wedi eu bwriadu ar gyfer melino neu wasgu, nid oes angen glanhau'r grawn a'r hadau sy'n cynnwys lefelau nad ydynt yn cydymffurfio o hadau *Ambrosia* spp. cyn melino neu wasgu ar yr amod:

- bod y llwyth yn cael ei gludo yn ei gyfanrwydd i'r safle melino neu'r safle gwasgu a bod y safle melino neu'r safle gwasgu yn cael gwybod ymlaen llaw am bresenoldeb lefel uchel o hadau *Ambrosia* spp. er mwyn cymryd camau ataliol ychwanegol i atal lledaenu'r hadau hynny i'r amgylchedd, a
- y darperir tystiolaeth gadarn bod mesurau ataliol yn cael eu cymryd i atal lledaenu hadau *Ambrosia* spp. i'r amgylchedd wrth eu cludo i'r safle gwasgu neu'r safle melino, a
- bod yr awdurdod cymwys yn cytuno i'r cludo, ar ôl sicrhau bod yr amodau a grybwyllir uchod wedi eu bodloni.

Pan na fodlonir yr amodau hyn, rhaid glanhau'r llwyth cyn ei gludo i Gymru, a rhaid dinistrio'r gweddillion glanhau yn briodol.

**Tabl 7**

**Ychwanegion bwyd anifeiliaid awdurdodedig mewn bwyd anifeiliaid ar gyfer rhywogaethau nad ydynt yn darged yn dilyn trosglwyddo'n anochel**

<i>Coccidiostat</i>	<i>Cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid<sup>(1)</sup></i>	<i>Uchafswm cynnwys mewn mg/kg (rhannau y filiwn) mewn perthynas â bwyd anifeiliaid sydd â chynnwys lleithder o 12%</i>
<b>1. Decocwinad</b>	<b>Deunyddiau bwyd anifeiliaid</b>	0.4
	<b>Bwyd anifeiliaid cyfansawdd ar gyfer:</b> — adar dodwy ac ieir a fegir ar gyfer dodwy (> 16 wythnos); — rhywogaethau eraill o anifeiliaid.	0.4  1.2
	<b>Rhag-gymysgeddau i'w defnyddio mewn bwyd anifeiliaid nad yw'r defnydd ynddo o ddecowinad wedi ei awdurdodi</b>	<sup>(2)</sup>
<b>2. Diclaswrl</b>	<b>Deunyddiau bwyd anifeiliaid</b>	0.03
	<b>Bwyd anifeiliaid cyfansawdd ar gyfer:</b>	



	— adar dodwy ac ieir a fegir ar gyfer dodwy (> 16 wythnos);	0.03
	— cwningod i'w pesgi a'u bridio ar gyfer y cyfnod cyn cigydda y mae'r defnydd o diclaswrl wedi ei wahardd ynddo (bwyd anifeiliaid diddyfnu);	0.03
	— rhywogaethau eraill o anifeiliaid ac eithrio ieir a fegir ar gyfer dodwy (< 16 wythnos), ieir i'w pesgi, ieir gini a thyrwyn i'w pesgi.	0.09
	<b>Rhag-gymysgeddau i'w defnyddio mewn bwyd anifeiliaid nad yw'r defnydd o diclaswrl ynddo wedi ei awdurdodi</b>	(2)
<b>3. Haloffwginon hydrobromid</b>	<b>Deunyddiau bwyd anifeiliaid</b>	0.03
	<b>Bwyd anifeiliaid cyfansawdd ar gyfer:</b>	
	— adar dodwy, ieir a fegir ar gyfer dodwy a thyrwyn (> 12 wythnos);	0.03
	— ieir i'w pesgi a thyrwyn (< 12 wythnos) ar gyfer y cyfnod cyn cigydda y mae'r defnydd o haloffwginon hydrobromid wedi ei wahardd ynddo (bwyd anifeiliaid diddyfnu);	0.03
	— rhywogaethau eraill o anifeiliaid.	0.09
	<b>Rhag-gymysgeddau i'w defnyddio mewn bwyd anifeiliaid nad yw'r defnydd ynddo o haloffwginon hydrobromid wedi ei awdurdodi</b>	(2)
<b>4. Lasalocid A sodiwm</b>	<b>Deunyddiau bwyd anifeiliaid</b>	1.25
	<b>Bwyd anifeiliaid cyfansawdd ar gyfer:</b>	
	— cŵn, lloi, cwningod, rhywogaethau'r ceffyl, anifeiliaid llaeth, adar dodwy, tyrcwn (> 16 wythnos) ac ieir a fegir ar gyfer dodwy (> 16 wythnos);	1.25
	— ieir i'w pesgi, ieir a fegir ar gyfer dodwy (< 16 wythnos) a thyrwyn (< 16 wythnos) ar gyfer y cyfnod cyn cigydda y mae'r defnydd o lasalocid A sodiwm wedi ei wahardd ynddo (bwyd anifeiliaid diddyfnu);	1.25
	— ffesantod, ieir gini, sofflieir a phetris (ac eithrio adar dodwy) ar gyfer y cyfnod cyn cigydda y mae'r defnydd o lasalocid A sodiwm wedi ei wahardd ynddo (bwyd anifeiliaid diddyfnu);	1.25
	— rhywogaethau eraill o anifeiliaid.	3.75
	<b>Rhag-gymysgeddau i'w defnyddio mewn bwyd anifeiliaid nad yw'r defnydd ynddo o lasalocid A sodiwm wedi ei awdurdodi</b>	(2)
<b>5. Madwramisin amoniwm alffa</b>	<b>Deunyddiau bwyd anifeiliaid</b>	0.05
	<b>Bwyd anifeiliaid cyfansawdd ar gyfer:</b>	
	— rhywogaethau'r ceffyl, cwningod, tyrcwn (> 16 wythnos), adar dodwy ac ieir a fegir ar gyfer dodwy (> 16 wythnos);	0.05

	— ieir i'w pesgi a thyrcwn (< 16 wythnos) ar gyfer y cyfnod cyn cigyddu y mae'r defnydd o madwramisin amoniwm alffa wedi ei wahardd ynddo (bwyd anifeiliaid diddyfnu); — rhywogaethau eraill o anifeiliaid.	0.05 0.15
	<b>Rhag-gymysgeddau i'w defnyddio mewn bwyd anifeiliaid nad yw'r defnydd ynddo o madwramisin amoniwm alffa wedi ei awdurdodi</b>	(2)
<b>6. Monensin sodiwm</b>	<b>Deunyddiau bwyd anifeiliaid</b>	1.25
	<b>Bwyd anifeiliaid cyfansawdd ar gyfer:</b> — rhywogaethau'r ceffyl, cŵn, anifeiliaid cnoi cil bach (defaid a geifr), hwyaid, rhywogaethau buchol, gwartheg godro, adar dodwy, ieir a fegir ar gyfer dodwy (> 16 wythnos) a thyrcwn (> 16 wythnos); — ieir i'w pesgi, ieir a fegir ar gyfer dodwy (< 16 wythnos) a thyrcwn (< 16 wythnos) ar gyfer y cyfnod cyn cigyddu y mae'r defnydd o monensin sodiwm wedi ei wahardd ynddo (bwyd anifeiliaid diddyfnu); — rhywogaethau eraill o anifeiliaid.	1.25 1.25 3.75
	<b>Rhag-gymysgeddau i'w defnyddio mewn bwyd anifeiliaid nad yw'r defnydd ynddo o monensin sodiwm wedi ei awdurdodi</b>	(2)
<b>7. Narasin</b>	<b>Deunyddiau bwyd anifeiliaid</b>	0.7
	<b>Bwyd anifeiliaid cyfansawdd ar gyfer:</b> — tyrcwn, cwningod, rhywogaethau'r ceffyl, adar dodwy ac ieir a fegir ar gyfer dodwy (> 16 wythnos); — rhywogaethau eraill o anifeiliaid.	0.7 2.1
	<b>Rhag-gymysgeddau i'w defnyddio mewn bwyd anifeiliaid nad yw'r defnydd ynddo o narasin wedi ei awdurdodi</b>	(2)
<b>8. Nicarbasin</b>	<b>Deunyddiau bwyd anifeiliaid</b>	1.25
	<b>Bwyd anifeiliaid cyfansawdd ar gyfer:</b> — rhywogaethau'r ceffyl, adar dodwy ac ieir a fegir ar gyfer dodwy (> 16 wythnos); — rhywogaethau eraill o anifeiliaid.	1.25 1.25
	<b>Rhag-gymysgeddau i'w defnyddio mewn bwyd anifeiliaid nad yw'r defnydd ynddo o nicarbasin (yn unigol neu ar y cyd â narasin) wedi ei awdurdodi</b>	(2)
<b>9. Robenidin hydroclorid</b>	<b>Deunyddiau bwyd anifeiliaid</b>	0.7
	<b>Bwyd anifeiliaid cyfansawdd ar gyfer:</b> — adar dodwy ac ieir a fegir ar gyfer dodwy (> 16 wythnos);	0.7

	— ieir i'w pesgi, cwingod i'w pesgi a'u bridio a thyrwn ar gyfer y cyfnod cyn cigydda y mae'r defnydd o robenidin hydroclorid wedi ei wahardd ynddo (bwyd anifeiliaid diddyfnu); — rhywogaethau eraill o anifeiliaid.	0.7 2.1
	<b>Rhag-gymysgeddau i'w defnyddio mewn bwyd anifeiliaid nad yw'r defnydd ynddo o robenidin hydroclorid wedi ei awdurdodi</b>	(2)
<b>10. Salinomycin sodiwm</b>	<b>Deunyddiau bwyd anifeiliaid</b>	0.7
	<b>Bwyd anifeiliaid cyfansawdd ar gyfer:</b> — rhywogaethau'r ceffyl, tyrcwn, adar dodwy ac ieir a fegir ar gyfer dodwy (> 12 wythnos); — ieir i'w pesgi, ieir a fegir ar gyfer dodwy (< 12 wythnos) a chwingod i'w pesgi ar gyfer y cyfnod cyn cigydda y mae'r defnydd o salinomycin sodiwm wedi ei wahardd ynddo (bwyd anifeiliaid diddyfnu); — rhywogaethau eraill o anifeiliaid.	0.7 0.7 2.1
	<b>Rhag-gymysgeddau i'w defnyddio mewn bwyd anifeiliaid nad yw'r defnydd ynddo o salinomycin sodiwm wedi ei awdurdodi</b>	(2)
<b>11. Semdwramisin sodiwm</b>	<b>Deunyddiau bwyd anifeiliaid</b>	0.25
	<b>Bwyd anifeiliaid cyfansawdd ar gyfer:</b> — adar dodwy ac ieir a fegir ar gyfer dodwy (> 16 wythnos); — ieir i'w pesgi ar gyfer y cyfnod cyn cigydda y mae'r defnydd o semdwramisin sodiwm wedi ei wahardd ynddo (bwyd anifeiliaid diddyfnu); — rhywogaethau eraill o anifeiliaid.	0.25 0.25 0.75
	<b>Rhag-gymysgeddau i'w defnyddio mewn bwyd anifeiliaid nad yw'r defnydd ynddo o semdwramisin sodiwm wedi ei awdurdodi</b>	(2)

(1) Heb leihau effaith y lefelau awdurdodedig yn unol â Rheoliad 1831/2003.

(2) Lefel uchaf y sylwedd yn y rhag-gymysgedd yw'r crynodiad na fydd yn arwain at lefel o'r sylwedd sy'n uwch na 50 % o'r lefelau uchaf a sefydlir yn y bwyd anifeiliaid wrth ddilyn cyfarwyddiadau defnyddio'r rhag-gymysgedd.

## ATODLEN 1C

Rheoliadau 15 a 15A

### Trothwyon gweithredu ar gyfer sbarduno ymchwiliadau

**Tabl 1 (rhan 1)**

**Deuocsinau a biffenylau polyclorinedig (PCBau)**

<i>Y sylweddau annymunol</i>	<i>Cynhyrchion a fwriedir ar gyfer bwyd anifeiliaid</i>	<i>Trothwy gweithredu mewn ng WHO-PCDD/F TEQ/kg (rhannau y triliwn)<sup>(1)</sup> mewn perthynas â bwyd anifeiliaid sydd â chynnwys lleithder o 12%</i>	<i>Sylwadau a gwybodaeth ychwanegol (e.e. natur yr ymchwiliadau sydd i'w cynnal)</i>
<b>1. Deuocsinau (swm deubenso-<i>para</i>-deuocsinau polychlorinedig (PCDDau), deubensoffwrannau polychlorinedig (PCDFau) wedi eu mynegi yn lefelau gwenwynig cyfatebol Sefydliad Iechyd y Byd (WHO), gan ddefnyddio'r WHO-TEFau (ffactorau cyfwerthedd gwenwynig, 2005)<sup>(2)</sup>)</b>	<b>Deunyddiau bwyd anifeiliaid sy'n dod o blanhigion</b> ac eithrio: — olewau llysiâu a'u sgil-gynhyrchion.	0.5	(3)
	<b>Deunyddiau bwyd anifeiliaid sy'n dod o fwynau</b>	0.5	(3)
	<b>Deunyddiau bwyd anifeiliaid sy'n dod o anifeiliaid:</b> — Braster anifeiliaid, gan gynnwys braster llaeth a braster wyau; — Cynhyrchion eraill anifeiliaid tir gan gynnwys llaeth a chynhyrchion llaeth ac wyau a chynhyrchion wyau; — Olew pysgod; — Pysgod, anifeiliaid dyfrol eraill, a chynhyrchion sy'n deillio ohonynt ac eithrio olew pysgod, protein pysgod wedi ei hydroleiddio sy'n cynnwys mwy na 20% o fraster a bawd cramenogion; — Protein pysgod wedi ei hydroleiddio sy'n cynnwys mwy na 20% o fraster a bawd cramenogion.	0.75	(3)
		0.5	(3)
		4.0	(4)
		0.75	(4)
<b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfryngau rhwymo a chyfryngau gwrthdalpio.</b>		0.5	(3)

	<b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfansoddion elfennau hybrin</b>	0.5	(3)
	<b>Rhag-gymysgeddau</b>	0.5	(3)
	<b>Bwyd anifeiliaid cyfansawdd</b> ac eithrio:	0.5	(3)
	— bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid anwes a physgod; — bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid ffwr.	1.25 —	(4)
<b>2. Biffenylau polychlorinedig (PCBau) sy'n debyg i ddeuocsinau (swm biffenylau polychlorinedig (PCBau) wedi eu mynegi yn lefelau gwenwynig cyfatebol Sefydliad Iechyd y Byd (WHO), gan ddefnyddio'r WHO-TEFau (ffactorau cyfwerthedd gwenwynig, 2005)<sup>(2)</sup></b>	<b>Deunyddiau bwyd anifeiliaid sy'n dod o blanhigion</b> ac eithrio:	0.35	(3)
	— olewau llysiâu a'u sgil-gynhyrchion.	0.5	(3)
	<b>Deunyddiau bwyd anifeiliaid sy'n dod o fwynau</b>	0.35	(3)
	<b>Deunyddiau bwyd anifeiliaid sy'n dod o anifeiliaid:</b> — Braster anifeiliaid, gan gynnwys braster llaeth a braster wyau;	0.75	(3)
	— Cynhyrchion eraill anifeiliaid tir gan gynnwys llaeth a chynhyrchion llaeth ac wyau a chynhyrchion wyau;	0.35	(3)
— Olew pysgod;	11.0	(4)	
— Pysgod, anifeiliaid dyfrol eraill, a chynhyrchion sy'n deillio ohonynt ac eithrio olew pysgod a phrotein pysgod wedi ei hydroleiddio sy'n cynnwys mwy na 20% o fraster <sup>(3)</sup> ;	2.0	(4)	
— Protein pysgod wedi ei hydroleiddio sy'n cynnwys mwy na 20% o fraster.	5.0	(4)	

	<b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfryngau rhwymo a chyfryngau gwrthdalpio</b>	0.5	(3)
	<b>Ychwanegion bwyd anifeiliaid sy'n perthyn i grŵp swyddogaethol cyfansoddion elfennau hybrin</b>	0.35	(3)
	<b>Rhag-gymysgeddau</b>	0.35	(3)
	<b>Bwyd anifeiliaid cyfansawdd</b> ac eithrio: — bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid anwes a physgod; — bwyd anifeiliaid cyfansawdd ar gyfer anifeiliaid ffwr.	0.5  2.5  —	(3)  (4)

(1) Crynodiadau arffin uchaf; cyfrifir crynodiadau arffin uchaf gan ragdybio bod holl werthoedd y cytrasau gwahanol islaw'r terfyn meintioliad yn gyfwerth â'r terfyn meintioliad.

(2) Gweler Tabl 1 (Rhan 2) ar gyfer TEFau (= ffactorau cyfwerthedd gwenwynig) ar gyfer deuocsinau, ffwrannau a biffenylau polychlorinedig (PCBau) sy'n debyg i ddeuocsinau: WHO-TEFau ar gyfer asesu risg i iechyd dynol yn seiliedig ar gasgliadau cyfarfod arbenigol Sefydliad Iechyd y Byd (WHO) – Rhaglen Ryngwladol ar Ddiogelwch Cemegol (IPCS) a gynhaliwyd yn Genefa ym mis Mehefin 2005 (Martin van den Berg et al., The 2005 World Health Organisation Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds. Toxicological Sciences 93(2), 223–241 (2006)).

(3) Canfod ffynhonnell halogiad. Unwaith bod y ffynhonnell wedi ei chanfod, dylid cymryd mesurau priodol, pan fo'n bosibl, i leihau ffynhonnell yr halogiad neu i'w dileu.

(4) Mewn nifer o achosion efallai na fydd yn angenrheidiol cynnal ymchwiliad i ffynhonnell yr halogiad gan fod y lefel gefndir mewn rhai ardaloedd yn agos at y lefel weithredu neu'n uwch na'r lefel honno. Fodd bynnag, mewn achosion pan eir yn uwch na'r lefel weithredu, rhaid cofnodi'r holl wybodaeth, megis y cyfnod samplu, tarddiad daearyddol, y rhywogaeth o bysgod etc., er mwyn ystyried mesurau yn y dyfodol i reoli presenoldeb deuocsinau a chyfansoddion sy'n debyg i ddeuocsinau mewn deunydd ar gyfer maeth anifeiliaid.

**Tabl 1 (Rhan 2)**

**TEFau (= ffactorau cyfwerthedd gwenwynig) ar gyfer deuocsinau, ffwrannau a biffenylau polychlorinedig (PCBau) sy'n debyg i ddeuocsinau, at ddibenion Tabl 1 (Rhan 1) troednodyn (2)**

<i>Cytras</i>	<i>Gwerth TEF</i>
<b>Deubenso-para-deuocsinau ('PCDDau') a Deubenso-para-ffwrannau (PCDFau)</b>	
2,3,7,8-TCDD	1
1,2,3,7,8-PeCDD	1
1,2,3,4,7,8-HxCDD	0.1
1,2,3,6,7,8-HxCDD	0.1
1,2,3,7,8,9-HxCDD	0.1
1,2,3,4,6,7,8-HpCDD	0.01
OCDD	0.0003

2,3,7,8-TCDF	0.1
1,2,3,7,8-PeCDF	0.03
2,3,4,7,8-PeCDF	0.3
1,2,3,4,7,8-HxCDF	0.1
1,2,3,6,7,8-HxCDF	0.1
1,2,3,7,8,9-HxCDF	0.1
2,3,4,6,7,8-HxCDF	0.1
1,2,3,4,6,7,8-HpCDF	0.01
1,2,3,4,7,8,9-HpCDF	0.01
OCDF	0.0003
<b>Biffenylau polychlorinedig (PCBau) ‘sy’n debyg i ddeuocsinau’: PCBau An-ortho + PCBau Mono-ortho</b>	
<b>PCBau An-ortho</b>	
PCB 77	0.0001
PCB 81	0.0003
PCB 126	0.1
PCB 169	0.03
<b>PCBau Mono-ortho</b>	
PCB 105	0.00003
PCB 114	0.00003
PCB 118	0.00003
PCB 123	0.00003
PCB 156	0.00003
PCB 157	0.00003
PCB 167	0.00003
PCB 189	0.00003
Defnyddir y talfyriadau a ganlyn: ‘T’ = tetra; ‘Pe’ = penta; ‘Hx’ = hecsa; ‘Hp’ = hepta; ‘O’ = octa; ‘CDD’ = clorodeubensodiocsin; ‘CDF’ = clorodeubensoffwrn; ‘CB’ = clorobiffenyl.”	

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Argraffwyd a chyhoeddwyd yn y DU gan Y Llyfrfa Cyf dan awdurdod a goruchwyliaeth Jeff James, Rheolwr Llyfrfa Ei Fawrhydi ac Argraffydd Deddfau Senedd y Brenin.

New Schedule 6 to the Materials and Articles in Contact with Food (Wales)  
Regulations 2012

## “SCHEDULE 6

Regulation 12(1) and (2)

LIST OF SUBSTANCES AUTHORISED IN THE MANUFACTURE  
OF REGENERATED CELLULOSE FILM

Notes:

- The percentages in this Schedule are expressed in weight/weight (w/w) and are calculated in relation to the quantity of anhydrous uncoated regenerated cellulose film.
- The usual technical denominations are given in square brackets.
- The substances used shall be of good technical quality as regards the purity criteria.

**Table 1****Uncoated regenerated cellulose film**

<i>Denominations</i>	<i>Restrictions</i>
<b>A. Regenerated cellulose</b>	Not less than 72% (w/w)
<b>B. Additives</b>	
1. <i>Softeners</i>	Not more than 27% (w/w) in total
— Bis (2-hydroxyethyl) ether [= diethyleneglycol]	Only for films intended to be coated and then used for foods which are not moist, namely which do not contain water which is physically free at the surface. The total amount of bis(2-hydroxyethyl)ether and ethanediol present in foods that have been in contact with film of this type may not exceed 30mg/kg of the foodstuff.
— Ethanediol [= monoethyleneglycol]	
— 1,3-butanediol	
— Glycerol	
— 1,2-propanediol [= 1,2 propyleneglycol]	
— Polyethylene oxide [= polyethyleneglycol]	Average molecular weight between 250 and 1200.
— 1,2-polypropylene oxide [= 1,2 polypropyleneglycol]	Average molecular weight not greater than 400 and free 1,3-propanediol content not greater than 1% (w/w) in substance.
— Sorbitol	
— Tetraethyleneglycol	
— Triethyleneglycol	
— Urea	



2. Other Additives	Not more than 1% (w/w) in total.
First class	The quantity of the substance or group of substances in each indent may not exceed 2mg/dm <sup>2</sup> of the uncoated film.
— Acetic acid and its NH <sub>4</sub> , Ca, Mg, K and Na salts	
— Ascorbic acid and its NH <sub>4</sub> , Ca, Mg, K and Na salts	
— Benzoic acid and sodium benzoate	
— Formic acid and its NH <sub>4</sub> , Ca, Mg, K and Na salts	
— Linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive and also behenic and ricinoleic acids and the NH <sub>4</sub> , Ca, Mg, K, Na, Al and Zn salts of these acids	
— Citric, d- and l-lactic, maleic, l-tartaric acids and their Na and K salts	
— Sorbic acid and its NH <sub>4</sub> , Ca, Mg, K and Na salts	
— Amides of linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive and also the amides of behenic and ricinoleic acids	
— Natural edible starches and flours	
— Edible starches and flours modified by chemical treatment	
— Amylose	
— Calcium and magnesium carbonates and chlorides	
— Esters of glycerol with linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive and/or with adipic, citric, 12-hydroxystearic (oxystearin), ricinoleic acids	
— Esters of polyoxyethylene (8 to 14 oxyethylene groups) with linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive	
— Esters of sorbitol with linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive	
— Mono-and/or di-esters of stearic acid with ethanediol and/or bis (2-hydroxyethyl) ether and/or triethylene glycol	
— Oxides and hydroxides of aluminium, calcium, magnesium and silicon and silicates and hydrated silicates of aluminium, calcium, magnesium and potassium	
— Polyethylene oxide [= polyethyleneglycol]	Average molecular weight between 1200 and 4000.
— Sodium propionate	

<i>Second class</i>	The total quantity of the substances may not exceed 1mg/dm <sup>2</sup> of the uncoated film and the quantity of the substance or group of substances in each indent may not exceed 0.2mg/dm <sup>2</sup> (or a lower limit where one is specified) of the uncoated film.
— Sodium alkyl (C <sub>8</sub> -C <sub>18</sub> ) benzene sulphonate	
— Sodium isopropyl naphthalene sulphonate	
— Sodium alkyl (C <sub>8</sub> -C <sub>18</sub> ) sulphate	
— Sodium alkyl (C <sub>8</sub> -C <sub>18</sub> ) sulphonate	
— Sodium dioctylsulphosuccinate	
— Distearate of dihydroxyethyl diethylene triamine monoacetate	Not more than 0.05mg/dm <sup>2</sup> of the uncoated film.
— Ammonium, magnesium and potassium lauryl sulphates	
— N,N'-distearoyl diaminoethane, N,N'-dipalmitoyl diaminoethane and N,N'-dioleoyl diaminoethane	
— 2-heptadecyl-4,4-bis(methylene-stearate) oxazoline	
— Polyethylene-aminostearamide ethylsulphate	Not more than 0.1 mg/dm <sup>2</sup> of the uncoated film.
<i>Third class — Anchoring agent</i>	The total quantity of substances may not exceed 1mg/dm <sup>2</sup> of the uncoated film.
— Condensation product of melamine-formaldehyde unmodified, or which may be modified with one or more of the following products: <ul style="list-style-type: none"> <li>• butanol</li> <li>• diethylenetriamine</li> <li>• ethanol</li> <li>• triethylenetetramine</li> <li>• tetraethylenepentamine</li> <li>• tri-(2-hydroxyethyl) amine</li> <li>• 3,3'-diaminodipropylamine</li> <li>• 4,4'-diaminodibutylamine</li> </ul>	Free formaldehyde content not greater than 0.5mg/dm <sup>2</sup> of the uncoated film. Free melamine content not greater than 0.3mg/dm <sup>2</sup> of the uncoated film.
— Condensation product of melamine-urea-formaldehyde modified with tris-(2-hydroxyethyl)amine	Free formaldehyde content not greater than 0.5mg/dm <sup>2</sup> of the uncoated film. Free melamine content not greater than 0.3mg/dm <sup>2</sup> of the uncoated film.

<p>— Cross-linked cationic polyalkyleneamines:</p> <ul style="list-style-type: none"> <li>• polyamide-epichlorhydrin resin based on diaminopropylmethylamine and epichlorhydrin</li> <li>• polyamide-epichlorhydrin resin based on epichlorhydrin, adipic acid, caprolactam, diethylenetriamine and/or ethylenediamine</li> <li>• polyamide-epichlorhydrin resin based on adipic acid, diethylenetriamine and epichlorhydrin, or a mixture of epichlorhydrin and ammonia</li> <li>• polyamide-polyamine-epichlorhydrin resin based on epichlorhydrin, dimethyl adipate and diethylenetriamine</li> <li>• polyamide-polyamine-epichlorhydrin resin based on epichlorhydrin, adipamide and diaminopropylmethylamine</li> </ul>	
<p>— Polyethyleneamines and polyethyleneimines;</p>	<p>Not more than 0.75mg/dm<sup>2</sup> of the uncoated film.</p>
<p>— Condensation product of urea-formaldehyde unmodified, or which may be modified with one or of the following products:</p> <ul style="list-style-type: none"> <li>• aminomethylsulphonic acid</li> <li>• sulphanic acid</li> <li>• butanol</li> <li>• diaminobutane</li> <li>• diaminodiethylamine</li> <li>• diaminodipropylamine</li> <li>• diaminopropane</li> <li>• diethylenetriamine</li> <li>• ethanol</li> <li>• guanidine</li> <li>• methanol</li> <li>• tetraethylenepentamine</li> <li>• triethylenetetramine</li> <li>• sodium sulphite</li> </ul>	<p>Free formaldehyde content not greater than 0.5mg/dm<sup>2</sup> of the uncoated film.</p>
<p><i>Fourth class</i></p>	<p>The total quantity of substances may not exceed 0.01mg/dm<sup>2</sup> of the uncoated film.</p>
<p>— Products resulting from the reaction of the amines of edible oils with polyethylene oxide</p>	
<p>— Monoethanolamine lauryl sulphate</p>	

**Table 2****Coated regenerated cellulose film**

<i>Denominations</i>	<i>Restrictions</i>
<b>A. Regenerated cellulose</b>	See Table 1.
<b>B. Additives</b>	See Table 1.
<b>C. Coating</b>	
1. <i>Polymers</i>	The total quantity of substances may not exceed 50mg/dm <sup>2</sup> of the coating on the side in contact with food.
— Ethyl, hydroxyethyl, hydroxypropyl and methyl ethers of cellulose	
— Cellulose nitrate	Not more than 20mg/dm <sup>2</sup> of the coating on the side in contact with food; nitrogen content between 10.8% (w/w) and 12.2% (w/w) in the cellulose nitrate.
2. <i>Resins</i>	The total quantity of substances may not exceed 12.5mg/dm <sup>2</sup> of the coating on the side in contact with food and solely for the preparation of regenerated cellulose films with cellulose nitrate based coatings.
— Casein	
— Colophony and/or its products of polymerization, hydrogenation, or disproportionation and their esters of methyl, ethyl or C <sub>2</sub> to C <sub>6</sub> polyvalent alcohols, or mixtures of these alcohols	
— Colophony and/or its products of polymerization, hydrogenation, or disproportionation condensed with acrylic, maleic, citric, fumaric and/or phthalic acids and/or 2,2 bis (4-hydroxyphenyl) propane formaldehyde and esterified with methyl ethyl or C <sub>2</sub> to C <sub>6</sub> polyvalent alcohols or mixtures of these alcohols	
— Esters derived from bis(2-hydroxyethyl) ether with addition products of betapinene, and/or dipentene, and/or diterpene and maleic anhydride	
— Edible gelatine	
— Castor oil and its products of dehydration or hydrogenation and its condensation products with polyglycerol, adipic, citric, maleic, phthalic and sebacic acids	
— Natural gum [= damar]	
— Poly-beta-pinene [= terpenic resins]	
— Urea-formaldehyde resins (see anchoring agents)	
3. <i>Plasticisers</i>	The total quantity of substances may not exceed 6mg/dm <sup>2</sup> of the coating on the side in contact with food.
— Acetyl tributyl citrate	
— Acetyl tri(2-ethylhexyl) citrate	

— Di-isobutyl adipate	
— Di-n-butyl adipate	
— Di-n-hexyl azelate	
— Dicyclohexyl phthalate	Not more than 4.0mg/dm <sup>2</sup> of the coating on the side in contact with food.
— 2-ethylhexyl diphenyl phosphate (synonym: phosphoric acid diphenyl 2 ethylhexyl ester)	The amount of 2-ethylhexyl diphenyl phosphate shall not exceed:  (a) 2.4mg/kg of the foodstuff in contact with this type of film; or  (b) 0.4mg/dm <sup>2</sup> in the coating on the side in contact with food.
— Glycerol monoacetate [= monoacetin]	
— Glycerol diacetate [= diacetin]	
— Glycerol triacetate [= triacetin]	
— Di-butyl sebacate	
— Di-n-butyl tartrate	
— Di-isobutyl tartrate	
4. <i>Other additives</i>	The total quantity of substances may not exceed 6mg/dm <sup>2</sup> in the uncoated regenerated cellulose film, inclusive of the coating on the side in contact with food.
4.1 Additives listed in Table 1	Same restrictions as in Table 1 (however the quantities in mg/dm <sup>2</sup> refer to the uncoated regenerated cellulose film, inclusive of the coating on the side in contact with food).
4.2 Specific coating additives	The quantity of the substance or group of substances in each indent may not exceed 2mg/dm <sup>2</sup> (or a lower limit where one is specified) of the coating on the side in contact with food.
— 1-hexadecanol and 1-octadecanol	
— Esters of linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive and of ricinoleic acid with ethyl, butyl, amyl and oleyl linear alcohols	
— Montan waxes, comprising purified montanic (C <sub>26</sub> to C <sub>32</sub> ) acids and/or their esters with ethanediol and/or 1,3 butanediol and/or their calcium and potassium salts	
— Carnauba wax	
— Beeswax	
— Esparto wax	

— Candelilla wax	
— Dimethylpolysiloxane	Not more than 1mg/dm <sup>2</sup> of the coating on the side in contact with food.
— Epoxidised soya-bean oil (oxirane content 6 to 8%)	
— Refined paraffin and microcrystalline waxes	
— Pentaerythritol tetrastearate	
— Mono and bis(octadecyldiethyleneoxide)-phosphates	Not more than 0.2mg/dm <sup>2</sup> of the coating on the side in contact with food.
— Aliphatic acids (C <sub>8</sub> to C <sub>20</sub> ) esterified with mono- or di-(2-hydroxyethyl)amine	
— 2- and 3-tert.butyl-4-hydroxyanisole [= butylated hydroxyanisole — BHA]	Not more than 0.06mg/dm <sup>2</sup> of the coating on the side in contact with food.
— 2,6-di-tert.butyl-4-methylphenol [= butylated hydroxytoluene — BHT]	Not more than 0.06mg/dm <sup>2</sup> of the coating on the side in contact with food.
— Di-n-octyltin-bis(2-ethylhexyl) maleate	Not more than 0.06mg/dm <sup>2</sup> of the coating on the side in contact with food.
5. <i>Solvents</i>	The total quantity of substances may not exceed 0.6mg/dm <sup>2</sup> of the coating on the side in contact with food.
— Butyl acetate	
— Ethyl acetate	
— Isobutyl acetate	
— Isopropyl acetate	
— Propyl acetate	
— Acetone	
— 1-butanol	
— Ethanol	
— 2-butanol	
— 2-propanol	
— 1-propanol	
— Cyclohexane	
— Ethyleneglycol monobutyl ether	
— Ethyleneglycol monobutyl ether acetate	
— Methyl ethyl ketone	
— Methyl isobutyl ketone	
— Tetrahydrofuran	
— Toluene	Not more than 0.06mg/dm <sup>2</sup> of the coating on the side in contact with food.”

SCHEDULE 2

Regulation 3(9)

New Schedule 4A to the Food Additives, Flavourings, Enzymes and  
Extraction Solvents (Wales) Regulations 2013

“SCHEDULE 4A

Regulations 10, 11 and 14

Extraction solvents which may be used during the processing of raw  
materials, of food, of food components or of food ingredients

**Table 1**

**Extraction solvents to be used in compliance with good manufacturing practice for all  
uses<sup>(1)</sup>**

<i>Name:</i>
Propane
Butane
Ethyl Acetate
Ethanol
Carbon dioxide
Acetone <sup>(2)</sup>
Nitrous oxide

<sup>(1)</sup> An extraction solvent is considered as being used in compliance with good manufacturing practice if its use results only in the presence of residues or derivatives in technically unavoidable quantities presenting no danger to human health.

<sup>(2)</sup> Acetone is not permitted for use in the refining of olive-pomace oil.

**Table 2**

**Extraction solvents for which conditions of use are specified**

<i>Name</i>	<i>Conditions of use (summary description of extraction)</i>	<i>Maximum residue limits in the extracted foodstuff or food ingredient</i>
Hexane <sup>(1)</sup>	Production or fractionation of fats and oils and production of cocoa butter	1 mg/kg in the fat or oil or cocoa butter
	Preparation of defatted protein products and defatted flours	10 mg/kg in the food containing the defatted protein products and the defatted flours
		30 mg/kg in the defatted soya products as sold to the final consumer
	Preparation of defatted cereal germs	5 mg/kg in the defatted cereal germs
Methyl acetate	Decaffeination of, or removal of irritants and bitterings from coffee and tea	20 mg/kg in the coffee or tea

	Production of sugar from molasses	1 mg/kg in the sugar
Ethylmethylketone <sup>(2)</sup>	Fractionation of fats and oils	5 mg/kg in the fat or oil
	Decaffeination of, or removal of irritants and bitterings from coffee and tea	20 mg/kg in the coffee or tea
Dichloromethane	Decaffeination of, or removal of irritants and bitterings from coffee and tea	2 mg/kg in the roasted coffee and 5 mg/kg in the tea
Methanol	For all uses	10 mg/kg
Propan-2-ol	For all uses	10 mg/kg
Dimethyl ether	Preparation of defatted animal protein products including gelatine <sup>(3)</sup>	0.009 mg/kg in the defatted animal protein products including gelatine
	Preparation of collagen <sup>(4)</sup> and collagen derivatives, except gelatine	3 mg/kg in the collagen and collagen derivatives, except gelatine

<sup>(1)</sup> Hexane means a commercial product consisting essentially of acyclic saturated hydrocarbons containing six carbon atoms and distilling between 64 °C and 70 °C. Combined use of Hexane and Ethylmethylketone is not permitted.

<sup>(2)</sup> The level of n-Hexane in this solvent should not exceed 50 mg/kg. Combined use of Hexane and Ethylmethylketone is not permitted.

<sup>(3)</sup> 'Gelatine' means natural, soluble protein, gelling or non-gelling, obtained by the partial hydrolysis of collagen produced from bones, hides and skins, tendons and sinews of animals, in accordance with the relevant requirements of Regulation (EC) No 853/2004 of the European Parliament and of the Council laying down specific hygiene rules for food of animal origin.

<sup>(4)</sup> 'Collagen' means the protein-based product derived from animal bones, hides, skins and tendons manufactured in accordance with the relevant requirements of Regulation (EC) No 853/2004.

**Table 3**

**Extraction solvents for which conditions of use are specified**

<i>Name</i>	<i>Maximum residue limits in the foodstuff due to the use of extraction solvents in the preparation of flavourings from natural flavouring materials</i>
Diethyl ether	2 mg/kg
Hexane <sup>(1)</sup>	1 mg/kg
Cyclohexane	1 mg/kg
Methyl acetate	1 mg/kg
Butan-1-ol	1 mg/kg
Butan-2-ol	1 mg/kg
Ethylmethylketone <sup>(1)</sup>	1 mg/kg
Dichloromethane	0.02 mg/kg
Propan-1-ol	1 mg/kg
1,1,1,2-tetrafluoroethane	0.02 mg/kg
Methanol	1.5 mg/kg
Propan-2-ol	1 mg/kg

<sup>(1)</sup> Combined use of Hexane and Ethylmethylketone is not permitted."



## SCHEDULE 3

Regulation 4(9)

### New Schedules 1A, 1B and 1C to the Animal Feed (Composition, Marketing and Use) (Wales) Regulations 2016

## “SCHEDULE 1A

Regulation 12(2)

### Categories of feed materials which may be indicated in place of individual feed materials

<i>Description of the category</i>	<i>Definition</i>
1. Meat and animal derivatives	— All the fleshy parts of slaughtered warm-blooded land animals, fresh or preserved by appropriate treatment, and —All products and derivatives of the processing of the carcass or parts of the carcass of warm-blooded land animals.
2. Milk and milk derivatives	All milk products, fresh or preserved by appropriate treatment, and derivatives from the processing of those products.
3. Eggs and egg derivatives	All egg products, fresh or preserved by appropriate treatment, and derivatives from the processing of those products.
4. Oils and fats	All animal and vegetable oils and fats.
5. Yeasts	All yeasts, the cells of which have been killed and dried.
6. Fish and fish derivatives	Fish or parts of fish, fresh or preserved by appropriate treatment, and derivatives from the processing of those products.
7. Cereals	All types of cereal, regardless of their presentation, or products made from the starchy endosperm.
8. Vegetables	All types of vegetables and legumes, fresh or preserved by appropriate treatment.
9. Derivatives of vegetable origin	Derivatives resulting from the treatment of vegetable products, in particular cereals, vegetables, legumes and oil seeds.
10. Vegetable protein extracts	All products of vegetable origin in which the proteins have been concentrated by an adequate process to contain at least 50% crude protein, as related to the dry matter, and which may be restructured (textured).
11. Minerals	All inorganic substances suitable for animal feed.
12. Various sugars	All types of sugar.
13. Fruit	All types of fruit, fresh or preserved by appropriate treatment.
14. Nuts	All kernels from shells.
15. Seeds	All types of seeds as such or roughly crushed.
16. Algae	Algae, fresh or preserved by appropriate treatment.

17. Molluscs and crustaceans	All types of molluscs, crustaceans, shellfish, fresh or preserved by appropriate treatment, and their processing derivatives.
18. Insects	All types of insects and their stages of development.
19. Bakery products	All bread, cakes, biscuits and pasta products.

## SCHEDULE 1B

Regulations 15 and 15A

### Maximum levels of undesirable substances

**Table 1**

**Inorganic contaminants and nitrogenous compounds**

<i>Undesirable substance</i>	<i>Products intended for animal feed</i>	<i>Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12%</i>
<b>1. Arsenic<sup>(1)</sup></b>	<b>Feed materials</b>	2
	with the exception of:	
	— meal made from grass, from dried lucerne and from dried clover, and dried sugar beet pulp and dried molasses sugar beet pulp;	4
	— palm kernel expeller;	4
	— peat, leonardite;	5
	— phosphates, calcareous marine algae;	10
— calcium carbonate; calcium and magnesium carbonate <sup>(2)</sup> , calcareous marine shells;	15	
— magnesium oxide, magnesium carbonate;	20	
— fish, other aquatic animals and products derived from them;	25	
— seaweed meal and feed materials derived from seaweed.	40	
	<b>Iron particles used as tracer</b>	50
	<b>Feed additives belonging to the functional group of compounds of trace elements</b>	30
	with the exception of:	
	— cupric sulphate pentahydrate, cupric carbonate, dicopper chloride trihydroxide, ferrous carbonate, dimanganese chloride trihydroxide;	50
	— zinc oxide, manganous oxide, cupric oxide.	100
	<b>Complementary feed</b>	4
	with the exception of:	
	— mineral feed;	12

	— complementary feed for pet animals containing fish, other aquatic animals and products derived from them and/or seaweed meal and feed materials derived from seaweed;	10
	— long-term supply formulations of feed for particular nutritional purposes with a concentration of trace elements higher than 100 times the established maximum content in complete feed.	30
	<b>Complete feed</b> with the exception of:	2
	— complete feed for fish and fur animals;	10
	— complete feed for pet animals containing fish, other aquatic animals and products derived from them and/or seaweed meal and feed materials derived from seaweed.	10
<b>2. Cadmium</b>	<b>Feed materials of vegetable origin</b>	1
	<b>Feed materials of animal origin</b>	2
	<b>Feed materials of mineral origin</b> with the exception of:	2
	— phosphates.	10
	<b>Feed additives belonging to the functional group of compounds of trace elements</b> with the exception of:	10
	— cupric oxide, manganous oxide, zinc oxide and manganous sulphate monohydrate.	30
	<b>Feed additives belonging to the functional groups of binders and anti-caking agents</b>	2
	<b>Premixtures<sup>(3)</sup></b>	15
<b>Complementary feed</b> with the exception of:	0.5	
— mineral feed;		
— containing < 7% phosphorus <sup>(4)</sup> ;	5	
— containing ≥ 7% phosphorus <sup>(4)</sup> ;	0.75 per 1% phosphorus <sup>(4)</sup> with a maximum of 7.5	
— complementary feed for pet animals;	2	
— long-term supply formulations of feed for particular nutritional purposes with a concentration of trace elements higher than 100 times the established maximum content in complete feed.	15	
<b>Complete feed</b> with the exception of:	0.5	
— complete feed for cattle (except calves), sheep (except lambs), goats (except kids) and fish;	1	
— complete feed for pet animals.	2	

<b>3. Fluorine<sup>(5)</sup></b>	<b>Feed materials</b> with the exception of: — feed materials of animal origin except marine crustaceans such as marine krill; calcareous marine shells; — marine crustaceans such as marine krill; — phosphates; — calcium carbonate, calcium and magnesium carbonate <sup>(2)</sup> ; — magnesium oxide; — calcareous marine algae.	150 500 3,000 2,000 350 600 1,250
	<b>Vermiculite (E 561)</b>	3,000
	<b>Complementary feed</b> — containing $\leq 4\%$ phosphorus <sup>(4)</sup> ; — containing $> 4\%$ phosphorus <sup>(4)</sup> .	500 125 per 1% phosphorus <sup>(4)</sup>
	<b>Complete feed</b> with the exception of: — complete feed for pigs; — complete feed for poultry (except chicks) and fish; — complete feed for chicks; — complete feed for cattle, sheep and goats – in lactation; – otherwise.	150 100 350 250 30 50
	<b>4. Lead<sup>(6)</sup></b>	
<b>Feed materials</b> with the exception of: — forage <sup>(7)</sup> — phosphates, calcareous marine algae and calcareous marine shells; — calcium carbonate, calcium and magnesium carbonate <sup>(2)</sup> ; — yeasts.	10 30 15 20 5	
<b>Feed additives belonging to the functional group of compounds of trace elements</b> with the exception of: — zinc oxide; — manganous oxide, ferrous carbonate, cupric carbonate, copper (I) oxide.	100 400 200	
<b>Feed additives belonging to the functional groups of binders and anti-caking agents</b> with the exception of: — clinoptilolite of volcanic origin, natrolite-phonolite.	30 60	
<b>Premixtures<sup>(3)</sup></b>	200	

	<p><b>Complementary feed</b> with the exception of:</p> <ul style="list-style-type: none"> <li>— mineral feed;</li> <li>— long-term supply formulations of feed for particular nutritional purposes with a concentration of trace elements higher than 100 times the established maximum content in complete feed.</li> </ul>	10 15 60
	<b>Complete feed</b>	5
<b>5. Mercury<sup>(8)</sup></b>	<b>Feed materials</b> with the exception of:	0.1
	— fish, other aquatic animals and products derived from them intended for the production of compound feed for food producing animals;	0.5
	— fish, other aquatic animals and products derived from them intended for the production of compound feed for dogs, cats, ornamental fish and fur animals;	1.0 <sup>(9)</sup>
	— fish, other aquatic animals and products derived from them as canned wet feed material for direct feeding of dogs and cats;	0.3
— calcium carbonate; calcium and magnesium carbonate <sup>(2)</sup> .	0.3	
	<b>Compound feed</b> with the exception of:	0.1
	— mineral feed;	0.2
	— compound feed for fish;	0.2
	— compound feed for dogs, cats, ornamental fish and fur animals.	0.3
<b>6. Nitrite<sup>(10)</sup></b>	<b>Feed materials</b> with the exception of:	15
	— fishmeal;	30
	— silage;	—
	— products and by-products from sugar beet and sugarcane and from starch and alcoholic drink production.	—
	<b>Complete feed</b> with the exception of:	15
	— complete feed for dogs and cats with a moisture content exceeding 20%.	—
<b>7. Melamine<sup>(11)</sup></b>	<b>Feed</b> with the exception of:	2.5
	— canned pet food;	2.5 <sup>(12)</sup>
	— the following feed additives:	
	— guanidino acetic acid (GAA);	20
— urea;	—	

	– biuret.	—
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- (1) The maximum levels refer to total arsenic.
- (2) Calcium and magnesium carbonate refers to the natural mixture of calcium carbonate and magnesium carbonate as described in Commission Regulation (EU) No. 68/2013 on the Catalogue of feed materials.
- (3) The maximum level established for premixtures takes into account the additives with the highest level of lead and cadmium and not the sensitivity of the different animal species to lead and cadmium. As provided in Article 16 of Regulation 1831/2003, in order to protect animal and public health, it is the responsibility of the producer of premixtures to ensure that, in addition to compliance with the maximum levels for premixtures, the instructions for use of the premixture are in accordance with the maximum levels for complementary and complete feed.
- (4) The % of phosphorus is relative to a feed with a moisture content of 12%.
- (5) Maximum levels refer to an analytical determination of fluorine, whereby extraction is performed with hydrochloric acid 1 N for 20 minutes at ambient temperature. Equivalent extraction procedures can be applied for which it can be demonstrated that the used extraction procedure has an equal extraction efficiency.
- (6) For the determination of lead in kaolinitic clay and in feed containing kaolinitic clay, the maximum level refers to an analytical determination of lead, whereby extraction is performed in nitric acid (5% w/w) for 30 minutes at boiling temperature. Equivalent extraction procedures can be applied for which it can be demonstrated that the used extraction procedure has an equal extraction efficiency.
- (7) Forage includes products intended for animal feed such as hay, silage, fresh grass, etc.
- (8) The maximum levels refer to total mercury.
- (9) The maximum level is applicable on wet weight basis.
- (10) The maximum levels are expressed as sodium nitrite.
- (11) The maximum level refers to melamine only. The inclusion of the structurally related compounds cyanuric acid, ammeline and ammeline in the maximum level will be considered at a later stage.
- (12) The maximum level is applicable to canned pet food as sold.

**Table 2**

**Mycotoxins**

<i>Undesirable substance</i>	<i>Products intended for animal feed</i>	<i>Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12%</i>
<b>1. Aflatoxin B<sub>1</sub></b>	<b>Feed materials</b>	0.02
	<b>Complementary and complete feed</b>	0.01
	with the exception of:	
	— compound feed for dairy cattle and calves, dairy sheep and lambs, dairy goats and kids, piglets and young poultry animals, — compound feed for cattle (except dairy cattle and calves), sheep (except dairy sheep and lambs), goats (except dairy goats and kids), pigs (except piglets) and poultry (except young animals).	0.005  0.02
<b>2. Rye ergot (<i>Claviceps purpurea</i>)</b>	<b>Feed materials and compound feed containing unground cereals</b>	1000

**Table 3**

**Inherent plant toxins**

<i>Undesirable substance</i>	<i>Products intended for animal feed</i>	<i>Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12%</i>
<b>1. Free gossypol</b>	<b>Feed materials</b> with the exception of: — cottonseed; — cottonseed cakes and cottonseed meal.	20 6000 1200
	<b>Complete feed</b> with the exception of: — complete feed for cattle (except calves); — complete feed for sheep (except lambs) and goats (except kids); — complete feed for poultry (except laying hens) and calves; — complete feed for rabbits, lambs, kids and pigs (except piglets).	20 500 300 100 60
<b>2. Hydrocyanic acid</b>	<b>Feed materials</b> with the exception of: — linseed; — linseed cakes; — manioc products and almond cakes.	50 250 350 100
	<b>Complete feed</b> with the exception of: — complete feed for young chickens (< 6 weeks).	50 10
<b>3. Theobromine</b>	<b>Complete feed</b> with the exception of: — complete feed for pigs; — complete feed for dogs, rabbits, horses and fur animals.	300 200 50
	<b>Complete feed for poultry</b> with the exception of: — complete feed for laying hens.	1000 500
<b>5. Volatile mustard oil<sup>(1)</sup></b>	<b>Feed materials</b> with the exception of: — Camelina seed and products derived from it <sup>(2)</sup> , products derived from mustard seed <sup>(2)</sup> , rape seed and products derived from it.	100 4000
	<b>Complete feed</b> with the exception of: — complete feed for cattle (except calves), sheep (except lambs) and goats (except kids);	150 1000

	— complete feed for pigs (except piglets) and poultry.	500
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<sup>(1)</sup> The maximum levels are expressed as allyl isothiocyanate.

<sup>(2)</sup> Upon request of the competent authorities, the responsible operator must perform an analysis to demonstrate that the content of total glucosinolates is lower than 30 mmol/kg. The method of analysis of reference is BS EN ISO 9167:2019 “*Rapeseed and rapeseed meals. Determination of glucosinolates content. Method using high-performance liquid chromatography*”. Published by the British Standards Institution on 30 June 2019 (ISBN 978 0 539 07739 1). Available from the British Standards Institution <https://knowledge.bsigroup.com>.

**Table 4**

**Organochlorine compounds (except dioxins and polychlorinated biphenyls (PCBs))**

<i>Undesirable substance</i>	<i>Products intended for animal feed</i>	<i>Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12%</i>
<b>1. Aldrin<sup>(1)</sup></b>	<b>Feed materials and compound feed</b> with the exception of:	0.01 <sup>(2)</sup>
	—fats and oils;	0.1 <sup>(2)</sup>
	— compound feed for fish.	0.02 <sup>(2)</sup>
<b>2. Dieldrin<sup>(1)</sup></b>	<b>Feed materials and compound feed</b> with the exception of:	0.01 <sup>(2)</sup>
	— fats and oils;	0.1 <sup>(2)</sup>
	— compound feed for fish.	0.02 <sup>(2)</sup>
<b>3. Camphechlor (toxaphene) – sum of indicator congeners CHB 26, 50 and 62<sup>(3)</sup></b>	<b>Fish, other aquatic animals and products derived from them</b> with the exception of:	0.02
	— fish oil.	0.2
	<b>Complete feed for fish</b>	0.05
<b>4. Chlordane (sum of cis- and trans-isomers and of oxychlordane, expressed as chlordane)</b>	<b>Feed materials and compound feed</b> with the exception of:	0.02
	— fats and oils.	0.05
<b>5. DDT (sum of DDT-, DDD- (or TDE-) and DDE-isomers, expressed as DDT)</b>	<b>Feed materials and compound feed</b> with the exception of:	0.05
	— fats and oils.	0.5
<b>6. Endosulfan (sum of alpha- and beta-isomers and of endosulfansulphate expressed as endosulfan)</b>	<b>Feed materials and compound feed</b> with the exception of:	0.1
	— cotton seed and products derived from the processing of it, except crude cotton seed oil;	0.3
	— soybean and products derived from the processing of it, except crude soybean oil;	0.5
	— crude vegetable oil;	1.0



	— complete feed for fish except for Salmonids; — complete feed for Salmonids.	0.005 0.05
<b>7. Endrin (sum of endrin and of delta-ketoi-endrin, expressed as endrin)</b>	<b>Feed materials and compound feed</b> with the exception of: — fats and oils.	0.01 0.05
<b>8. Heptachlor (sum of heptachlor and of heptachlorepoide, expressed as heptachlor)</b>	<b>Feed materials and compound feed</b> with the exception of: — fats and oils.	0.01 0.2
<b>9. Hexachlorobenzene (HCB)</b>	<b>Feed materials and compound feed</b> with the exception of: — fats and oils.	0.01 0.2
<b>10. Hexachlorocyclohexane (HCH)</b> — alpha-isomers  — beta-isomers  — gamma-isomers		
	<b>Feed materials and compound feed</b> with the exception of: — fats and oils.	0.02 0.2
	<b>Feed materials</b> with the exception of: — fats and oils.	0.01 0.1
	<b>Compound feed</b> with the exception of: — compound feed for dairy cattle.	0.01 0.005
	<b>Feed materials and compound feed</b> with the exception of: — fats and oils.	0.2 2.0

<sup>(1)</sup> Singly or combined expressed as dieldrin.

<sup>(2)</sup> Maximum level for aldrin and dieldrin, singly or combined, expressed as dieldrin.

<sup>(3)</sup> Numbering system according to Parlar, prefixed by either CHB or 'Parlar':

— CHB 26: 2-endo,3-exo,5-endo,6-exo,8,8,10,10-octochlorobornane,

— CHB 50: 2-endo,3-exo,5-endo,6-exo,8,8,9,10,10-nonachlorobornane,

— CHB 62: 2,2,5,5,8,9,9,10,10-nonachlorobornane.

Table 5 (Part 1)

## Dioxins and polychlorinated biphenyls (PCBs)

<i>Undesirable substance</i>	<i>Products intended for animal feed</i>	<i>Maximum content in ng WHO-PCDD/F-TEQ/kg (ppt)<sup>(1)</sup> relative to a feed with a moisture content of 12%</i>
<b>1. Dioxins (sum of polychlorinated dibenzo-<i>para</i>-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO-TEFs (toxic equivalency factors, 2005)<sup>(2)</sup></b>	<b>Feed materials of plant origin</b>	0.75
	with the exception of: — vegetable oils and their by-products.	0.75
	<b>Feed materials of mineral origin</b>	0.75
	<b>Feed materials of animal origin:</b>	
	— Animal fat, including milk fat and egg fat;	1.50
	— Other land animal products including milk and milk products and eggs and egg products;	0.75
	— Fish oil;	5.0
	— Fish, other aquatic animals, and products derived from them with the exception of fish oil, hydrolysed fish protein containing more than 20% fat <sup>(3)</sup> and crustacea meal;	1.25
	— Hydrolysed fish protein containing more than 20% fat and crustacea meal.	1.75
	<b>Feed additives belonging to the functional groups of binders and anti-caking agents<sup>(4)</sup></b>	0.75
<b>Feed additives belonging to the functional group of compounds of trace elements</b>	1.0	
<b>Premixtures</b>	1.0	
<b>Compound feed</b>	0.75	
with the exception of: — compound feed for pet animals and fish;	1.75	
— compound feed for fur animals.	—	

<i>Undesirable substance</i>	<i>Products intended for animal feed</i>	<i>Maximum content in ng WHO-PCDD/F-PCB-TEQ/kg (ppt)<sup>(1)</sup> relative to a feed with a moisture content of 12%</i>
<b>2. Sum of dioxins and dioxin-like polychlorinated biphenyls (PCBs) (sum of polychlorinated dibenzo-<i>para</i>-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs) and polychlorinated biphenyls (PCBs) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO-TEFs (toxic equivalency factors, 2005)<sup>(2)</sup></b>	<b>Feed materials of plant origin</b> with the exception of: — vegetable oils and their by-products.	1.25  1.5
	<b>Feed materials of mineral origin</b>	1.0
	<b>Feed materials of animal origin:</b> — Animal fat, including milk fat and egg fat;	2.0
	— Other land animal products including milk and milk products and eggs and egg products;	1.25
	— Fish oil;	20.0
	— Fish, other aquatic animals, and products derived from them with the exception of fish oil and hydrolysed fish protein containing more than 20% fat <sup>(3)</sup> ;	4.0
	— Hydrolysed fish protein containing more than 20% fat.	9.0
	<b>Feed additives belonging to the functional groups of binders and anti-caking agents<sup>(4)</sup></b>	1.5
	<b>Feed additives belonging to the functional group of compounds of trace elements</b>	1.5
	<b>Premixtures</b>	1.5
<b>Compound feed</b> with the exception of: — compound feed for pet animals and fish;	1.5  5.5	
— compound feed for fur animals.	—	
<i>Undesirable substance</i>	<i>Products intended for animal feed</i>	<i>Maximum content in µg/kg (ppb) relative to a feed with a moisture content of 12%<sup>(1)</sup></i>

<b>3. Non-dioxin-like polychlorinated biphenyls (PCBs) (sum of PCB 28, PCB 52, PCB 101, PCB 138, PCB 153 and PCB 180 (ICES – 6)<sup>(1)</sup>)</b>	<b>Feed materials of plant origin</b>	10
	<b>Feed materials of mineral origin</b>	10
	<b>Feed materials of animal origin:</b>	
	— Animal fat, including milk fat and egg fat;	10
	— Other land animal products including milk and milk products and eggs and egg products;	10
	— Fish oil;	175
	— Fish, other aquatic animals and products derived from them with the exception of fish oil and hydrolysed fish protein containing more than 20% fat <sup>(5)</sup> ;	30
	— Hydrolysed fish protein containing more than 20% fat.	50
	<b>Feed additives belonging to the functional groups of binders and anti-caking agents<sup>(4)</sup></b>	10
<b>Feed additives belonging to the functional group of compounds of trace elements</b>	10	
<b>Premixtures</b>	10	
<b>Compound feed</b>	10	
with the exception of:		
— compound feed for pet animals and fish;	40	
— compound feed for fur animals.	—	

<sup>(1)</sup> Upper-bound concentrations; upper-bound concentrations are calculated on the assumption that all values of the different congeners below the limit of quantification are equal to the limit of quantification.

<sup>(2)</sup> See Table 5 (Part 2) for TEFs (= toxic equivalency factors) for dioxins, furans and dioxin-like polychlorinated biphenyls (PCBs): WHO-TEFs for human risk assessment based on the conclusions of the World Health Organisation (WHO) – International Programme on Chemical Safety (IPCS) expert meeting which was held in Geneva in June 2005 (Martin van den Berg et al., The 2005 World Health Organisation Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds. Toxicological Sciences 93(2), 223–241 (2006)).

<sup>(3)</sup> Fresh fish and other aquatic animals directly delivered and used without intermediate processing for the production of feed for fur animals are not subject to the maximum levels, while maximum levels of 3.5ng WHO-PCDD/F-TEQ/kg product and 6.5ng WHO-PCDD/F-PCB-TEQ/kg product are applicable to fresh fish and 20.0ng WHO-PCDD/F-PCB-TEQ/kg product is applicable to fish liver used for the direct feeding of pet animals, zoo and circus animals or used as feed material for the production of pet food. The products or processed animal proteins produced from these animals (fur animals, pet animals, zoo and circus animals) cannot enter the food chain and cannot be fed to farmed animals which are kept, fattened or bred for the production of food.

(4) The maximum level is also applicable to the feed additives belonging to the functional groups of substances for the control of radionuclide contamination and substances for reduction of the contamination of feed by mycotoxins which also belong to the functional groups of binders and anti-caking agents.

(5) Fresh fish and other aquatic animals directly delivered and used without intermediate processing for the production of feed for fur animals are not subject to the maximum levels, while maximum levels of 75µg/kg product are applicable to fresh fish and 200µg/kg product are applicable to fish liver used for the direct feeding of pet animals, zoo and circus animals or used as feed material for the production of pet food. The products or processed animal proteins produced from these animals (fur animals, pet animals, zoo and circus animals) cannot enter the food chain and cannot be fed to farmed animals which are kept, fattened or bred for the production of food.

**Table 5 (Part 2)**

**TEFs (= toxic equivalency factors) for dioxins, furans and dioxin-like polychlorinated biphenyls (PCBs), for the purposes of Table 5.1 footnote (2)**

<i>Congener</i>	<i>TEF value</i>
<b>Dibenzo-para-dioxins ('PCDDs') and Dibenzo-para-furans (PCDFs)</b>	
2,3,7,8-TCDD	1
1,2,3,7,8-PeCDD	1
1,2,3,4,7,8-HxCDD	0.1
1,2,3,6,7,8-HxCDD	0.1
1,2,3,7,8,9-HxCDD	0.1
1,2,3,4,6,7,8-HpCDD	0.01
OCDD	0.0003
2,3,7,8-TCDF	0.1
1,2,3,7,8-PeCDF	0.03
2,3,4,7,8-PeCDF	0.3
1,2,3,4,7,8-HxCDF	0.1
1,2,3,6,7,8-HxCDF	0.1
1,2,3,7,8,9-HxCDF	0.1
2,3,4,6,7,8-HxCDF	0.1
1,2,3,4,6,7,8-HpCDF	0.01
1,2,3,4,7,8,9-HpCDF	0.01
OCDF	0.0003
<b>'Dioxin-like' polychlorinated biphenyls (PCBs): Non-ortho PCBs + Mono-ortho PCBs</b>	
<b>Non-ortho PCBs</b>	
PCB 77	0.0001
PCB 81	0.0003
PCB 126	0.1
PCB 169	0.03
<b>Mono-ortho PCBs</b>	
PCB 105	0.00003
PCB 114	0.00003
PCB 118	0.00003
PCB 123	0.00003
PCB 156	0.00003
PCB 157	0.00003
PCB 167	0.00003

PCB 189	0.00003
Abbreviations used: 'T' = tetra; 'Pe' = penta; 'Hx' = hexa; 'Hp' = hepta; 'O' = octa; 'CDD' = chlorodibenzodioxin; 'CDF' = chlorodibenzofuran; 'CB' = chlorobiphenyl.	

**Table 6**

**Harmful botanical impurities**

<i>Undesirable substance</i>	<i>Products intended for animal feed</i>	<i>Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12%</i>
<b>1. Weed seeds and unground and uncrushed fruits containing alkaloids, glucosides or other toxic substances separately or in combination including:</b> — <i>Datura</i> sp.	<b>Feed materials and compound feed</b>	3000
		1000
<b>2. <i>Crotalaria</i> spp.</b>	<b>Feed materials and compound feed</b>	100
<b>3. Seeds and husks from <i>Ricinus communis</i> L., <i>Croton tiglium</i> L. and <i>Abrus precatorius</i> L. as well as their processed derivatives<sup>(1)</sup>, separately or in combination</b>	<b>Feed materials and compound feed</b>	10 <sup>(2)</sup>
<b>4. Unhusked beech mast — <i>Fagus sylvatica</i> L.</b>	<b>Feed materials and compound feed</b>	Seeds and fruit as well as their processed derivatives may only be present in feed in trace amounts not quantitatively determinable.
<b>5. Purghera — <i>Jatropha curcas</i> L.</b>	<b>Feed materials and compound feed</b>	Seeds and fruit as well as their processed derivatives may only be present in feed in trace amounts not quantitatively determinable.
<b>6. Seeds from <i>Ambrosia</i> spp.</b>	<b>Feed materials<sup>(3)</sup></b> with the exception of: — Millet (grains of <i>Panicum miliaceum</i> L.) and sorghum (grains of <i>Sorghum bicolor</i> (L) Moench s.l.) not directly fed to animals <sup>(3)</sup> ; — Compound feed containing unground grains and seeds.	50
		200
		50

<p><b>7. Seeds from:</b></p> <p>— Indian mustard — <i>Brassica juncea</i> (L.) Czern. and Coss. ssp. <i>integrifolia</i> (West.) Thell.</p> <p>— Sareptian mustard — <i>Brassica juncea</i> (L.) Czern. and Coss. ssp. <i>juncea</i></p> <p>— Chinese mustard — <i>Brassica juncea</i> (L.) Czern. and Coss. ssp. <i>juncea</i> var. <i>lutea</i> Batalin</p> <p>— Black mustard — <i>Brassica nigra</i> (L.) Koch</p> <p>— Ethiopian mustard — <i>Brassica carinata</i> A. Braun</p>	<p><b>Feed materials and compound feed</b></p>	<p>Seeds may only be present in feed in trace amounts not quantitatively determinable.</p>
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<sup>(1)</sup> Insofar as determinable by analytical microscopy.

<sup>(2)</sup> Includes also seed husk fragments.

<sup>(3)</sup> Where unequivocal evidence is provided that the grains and seeds are intended for milling or crushing, there is no need to clean the grains and seeds containing non-compliant levels of *Ambrosia* spp. seeds before milling or crushing on the condition that:

- the consignment is transported as a whole to the milling or crushing plant, and the milling or crushing plant is informed in advance of the presence of high level of *Ambrosia* spp. seeds in order to take additional prevention measures to avoid dissemination into the environment, and
- solid evidence is provided that prevention measures are taken to avoid dissemination of *Ambrosia* spp. seeds into the environment during transport to the crushing or milling plant, and
- the competent authority agrees to the transport, after having ensured that the abovementioned conditions are fulfilled.

Where these conditions are not fulfilled, the consignment must be cleaned before it is transported into Wales and the screenings must be appropriately destroyed.

**Table 7**

**Authorised feed additives in non-target feed following unavoidable carry-over**

<i>Coccidiostat</i>	<i>Products intended for animal feed<sup>(1)</sup></i>	<i>Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12%</i>
<b>1. Decoquinatate</b>	<b>Feed materials</b>	0.4
	<p><b>Compound feed for:</b></p> <p>— laying birds and chickens reared for laying (&gt; 16 weeks);</p> <p>— other animal species.</p>	0.4 1.2
	<b>Premixtures for use in feed in which the use of decoquinatate is not authorised</b>	<sup>(2)</sup>
<b>2. Diclazuril</b>	<b>Feed materials</b>	0.03
	<p><b>Compound feed for:</b></p> <p>— laying birds and chickens reared for laying (&gt; 16 weeks);</p> <p>— rabbits for fattening and breeding for the period before slaughter in which the use of diclazuril is prohibited (withdrawal feed);</p>	0.03 0.03

	— other animal species other than chickens reared for laying (< 16 weeks), chickens for fattening, guinea fowl and turkeys for fattening.	0.09
	<b>Premixtures for use in feed in which the use of diclazuril is not authorised</b>	(2)
<b>3. Halofuginone hydrobromide</b>	<b>Feed materials</b>	0.03
	<b>Compound feed for:</b>	
	— laying birds, chickens reared for laying and turkeys (> 12 weeks);	0.03
	— chickens for fattening and turkeys (< 12 weeks) for the period before slaughter in which the use of halofuginone hydrobromide is prohibited (withdrawal feed);	0.03
	— other animal species.	0.09
	<b>Premixtures for use in feed in which the use of halofuginone hydrobromide is not authorised</b>	(2)
<b>4. Lasalocid A sodium</b>	<b>Feed materials</b>	1.25
	<b>Compound feed for:</b>	
	— dogs, calves, rabbits, equine species, dairy animals, laying birds, turkeys (> 16 weeks) and chickens reared for laying (> 16 weeks);	1.25
	— chickens for fattening, chickens reared for laying (< 16 weeks) and turkeys (< 16 weeks) for the period before slaughter in which the use of lasalocid A sodium is prohibited (withdrawal feed);	1.25
	— pheasants, guinea fowl, quails and partridges (except laying birds) for the period before slaughter in which the use of lasalocid A sodium is prohibited (withdrawal feed);	1.25
	— other animal species.	3.75
	<b>Premixtures for use in feed in which the use of lasalocid A sodium is not authorised</b>	(2)
<b>5. Maduramicin ammonium alpha</b>	<b>Feed materials</b>	0.05
	<b>Compound feed for:</b>	
	— equine species, rabbits, turkeys (> 16 weeks), laying birds and chickens reared for laying (> 16 weeks);	0.05
	— chickens for fattening and turkeys (< 16 weeks) for the period before slaughter in which the use of maduramicin ammonium alpha is prohibited (withdrawal feed);	0.05
	— other animal species.	0.15
	<b>Premixtures for use in feed in which the use of maduramicin ammonium alpha is not authorised</b>	(2)
<b>6. Monensin sodium</b>	<b>Feed materials</b>	1.25
	<b>Compound feed for:</b>	



	— equine species, dogs, small ruminants (sheep and goat), ducks, bovine species, dairy cattle, laying birds, chickens reared for laying (> 16 weeks) and turkeys (> 16 weeks);	1.25
	— chickens for fattening, chickens reared for laying (< 16 weeks) and turkeys (< 16 weeks) for the period before slaughter in which the use of monensin sodium is prohibited (withdrawal feed);	1.25
	— other animal species.	3.75
	<b>Premixtures for use in feed in which the use of monensin sodium is not authorised</b>	(2)
<b>7. Narasin</b>	<b>Feed materials</b>	0.7
	<b>Compound feed for:</b> — turkeys, rabbits, equine species, laying birds and chickens reared for laying (> 16 weeks); — other animal species.	0.7 2.1
	<b>Premixtures for use in feed in which the use of narasin is not authorised</b>	(2)
<b>8. Nicarbazin</b>	<b>Feed materials</b>	1.25
	<b>Compound feed for:</b> — equine species, laying birds and chickens reared for laying (> 16 weeks); — other animal species.	1.25 1.25
	<b>Premixtures for use in feed in which the use of nicarbazin (alone or in combination with narasin) is not authorised</b>	(2)
<b>9. Robenidine hydrochloride</b>	<b>Feed materials</b>	0.7
	<b>Compound feed for:</b> — laying birds and chickens reared for laying (> 16 weeks); — chickens for fattening, rabbits for fattening and breeding and turkeys for the period before slaughter in which the use of robenidine hydrochloride is prohibited (withdrawal feed); — other animal species.	0.7 0.7 2.1
	<b>Premixtures for use in feed in which the use of robenidine hydrochloride is not authorised</b>	(2)
<b>10. Salinomycin sodium</b>	<b>Feed materials</b>	0.7
	<b>Compound feed for:</b> — equine species, turkeys, laying birds and chickens reared for laying (> 12 weeks);	0.7

	— chickens for fattening, chickens reared for laying (< 12 weeks) and rabbits for fattening for the period before slaughter in which the use of salinomycin sodium is prohibited (withdrawal feed); — other animal species.	0.7  2.1
	<b>Premixtures for use in feed in which the use of salinomycin sodium is not authorised</b>	(2)
<b>11. Semduramicin sodium</b>	<b>Feed materials</b>	0.25
	<b>Compound feed for:</b>	
	— laying birds and chickens reared for laying (> 16 weeks);	0.25
	— chickens for fattening for the period before slaughter in which the use of semduramicin sodium is prohibited (withdrawal feed); — other animal species.	0.25  0.75
	<b>Premixtures for use in feed in which the use of semduramicin sodium is not authorised</b>	(2)

(1) Without prejudice to the authorised levels pursuant to Regulation 1831/2003.

(2) The maximum level of the substance in the premixture is the concentration which shall not result in a level of the substance higher than 50 % of the maximum levels established in the feed when the instructions for use of the premixture are followed.

## SCHEDULE 1C

Regulations 15 and 15A

### Action thresholds triggering investigations

Table 1 (part 1)

#### Dioxins and polychlorinated biphenyls (PCBs)

<i>Undesirable substances</i>	<i>Products intended for animal feed</i>	<i>Action threshold in ng WHO-PCDD/F TEQ/kg (ppt)<sup>(1)</sup> relative to a feedingstuff with a moisture content of 12%</i>	<i>Comments and additional information (e.g. nature of investigations to be performed)</i>
<b>1. Dioxins (sum of polychlorinated dibenzo-<i>para</i>-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO-TEFs (toxic equivalency</b>	<b>Feed materials of plant origin</b>	0.5	(3)
	with the exception of: — vegetable oils and their by-products.	0.5	(3)
	<b>Feed materials of mineral origin</b>	0.5	(3)
	<b>Feed materials of animal origin:</b>		

<b>factors, 2005)<sup>(2)</sup></b>	— Animal fat, including milk fat and egg fat;	0.75	(3)
	— Other land animal products including milk and milk products and eggs and egg products;	0.5	(3)
	— Fish oil;	4.0	(4)
	— Fish, other aquatic animals and products derived from them with the exception of fish oil, hydrolysed fish protein containing more than 20% fat and crustacea meal;	0.75	(4)
	— Hydrolysed fish protein containing more than 20% fat and crustacea meal.	1.25	(4)
	<b>Feed additives belonging to the functional groups of binders and anti-caking agents</b>	0.5	(3)
<b>Feed additives belonging to the functional group of compounds of trace elements</b>	0.5	(3)	
<b>Premixtures</b>	0.5	(3)	
<b>Compound feed</b> with the exception of:	0.5	(3)	
— compound feed for pet animals and fish;	1.25	(4)	
— compound feed for fur animals.	—		
<b>2. Dioxin-like polychlorinated biphenyls (PCBs) (sum of polychlorinated biphenyls (PCBs) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO-TEFs (toxic equivalency factors, 2005)<sup>(2)</sup></b>	<b>Feed materials of plant origin</b> with the exception of:	0.35	(3)
	— vegetable oils and their by-products.	0.5	(3)
	<b>Feed materials of mineral origin</b>	0.35	(3)
	<b>Feed materials of animal origin:</b>		
— Animal fat, including milk fat and egg fat;	0.75	(3)	
— Other land animal products including milk and milk products and eggs and egg products;	0.35	(3)	
— Fish oil;	11.0	(4)	

	— Fish, other aquatic animals and products derived from them with the exception of fish oil and hydrolysed fish protein containing more than 20% fat <sup>(3)</sup> ;	2.0	(4)
	— Hydrolysed fish protein containing more than 20% fat.	5.0	(4)
	<b>Feed additives belonging to the functional groups of binders and anti-caking agents</b>	0.5	(3)
	<b>Feed additives belonging to the functional group of compounds of trace elements</b>	0.35	(3)
	<b>Premixtures</b>	0.35	(3)
	<b>Compound feed</b> with the exception of: — compound feed for pet animals and fish; — compound feed for fur animals.	0.5 2.5 —	(3) (4)

<sup>(1)</sup> Upper-bound concentrations; upper-bound concentrations are calculated on the assumption that all values of the different congeners below the limit of quantification are equal to the limit of quantification.

<sup>(2)</sup> See Table 1 (part 2) for TEFs (= toxic equivalency factors) for dioxins, furans and dioxin-like polychlorinated biphenyls (PCBs): WHO-TEFs for human risk assessment based on the conclusions of the World Health Organisation (WHO) – International Programme on Chemical Safety (IPCS) expert meeting which was held in Geneva in June 2005 (Martin van den Berg et al., The 2005 World Health Organisation Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds. Toxicological Sciences 93(2), 223–241 (2006)).

<sup>(3)</sup> Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.

<sup>(4)</sup> In many cases it might not be necessary to perform an investigation into the source of contamination as the background level in some areas is close to or above the action level. However, in cases where the action level is exceeded, all information, such as sampling period, geographical origin, fish species etc., must be recorded with a view to future measures to manage the presence of dioxins and dioxin-like compounds in these materials for animal nutrition.

**Table 1 (Part 2)**

**TEF (= toxic equivalency factors) for dioxins, furans and dioxin-like polychlorinated biphenyls (PCBs), for the purposes of Table 1 (Part 1) footnote (2)**

<i>Congener</i>	<i>TEF value</i>
<b>Dibenzo-para-dioxins ('PCDDs') and Dibenzo-para-furans (PCDFs)</b>	
2,3,7,8-TCDD	1
1,2,3,7,8-PeCDD	1
1,2,3,4,7,8-HxCDD	0.1
1,2,3,6,7,8-HxCDD	0.1
1,2,3,7,8,9-HxCDD	0.1

1,2,3,4,6,7,8-HpCDD	0.01
OCDD	0.0003
2,3,7,8-TCDF	0.1
1,2,3,7,8-PeCDF	0.03
2,3,4,7,8-PeCDF	0.3
1,2,3,4,7,8-HxCDF	0.1
1,2,3,6,7,8-HxCDF	0.1
1,2,3,7,8,9-HxCDF	0.1
2,3,4,6,7,8-HxCDF	0.1
1,2,3,4,6,7,8-HpCDF	0.01
1,2,3,4,7,8,9-HpCDF	0.01
OCDF	0.0003
<b>‘Dioxin-like’ polychlorinated biphenyls (PCBs): Non-ortho PCBs + Mono-ortho PCBs</b>	
<b>Non-ortho PCBs</b>	
PCB 77	0.0001
PCB 81	0.0003
PCB 126	0.1
PCB 169	0.03
<b>Mono-ortho PCBs</b>	
PCB 105	0.00003
PCB 114	0.00003
PCB 118	0.00003
PCB 123	0.00003
PCB 156	0.00003
PCB 157	0.00003
PCB 167	0.00003
PCB 189	0.00003
Abbreviations used: ‘T’ = tetra; ‘Pe’ = penta; ‘Hx’ = hexa; ‘Hp’ = hepta; ‘O’ = octa; ‘CDD’ = chlorodibenzodioxin; ‘CDF’ = chlorodibenzofuran; ‘CB’ = chlorobiphenyl.”	

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