

# Food and feed law:

Compendium of UK food and feed legislation with associated context and changes during

July – September 2017

**Government Chemist Programme Report** 



FUNDED BY BEIS



# UK food and feed legislation

# & changes during July - September 2017

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Report no. LGC/R/2017/607

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Date: 19 December 2017

Preparation of this report was funded by the Department for Business, Energy & Industrial Strategy.

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### Introduction to 'Food and feed law' review series

This is the second in a series of quarterly reports produced under the Government Chemist Programme 2017–2020. The reports provide a compendium of UK food and feed law of interest to the Government Chemist, Public Analysts and those working primarily in food and feed standards. The aim is to provide regular updates, to ensure contextual awareness and assist in the interpretation of chemical measurement data. The reports group legislation into six broad categories; although updates in all the categories may not occur for every report. The categories are:

- 1. Cross-cutting issues
- 2. Food safety
  - Including contaminants, food contact materials, and additives.
- 3. Consumer choice and prevention of fraud
  - Including composition and general labelling.
- 4. Health and nutrition
  - Including nutrition labelling, nutrients and supplements.
- 5. Regulation
  - Regulatory activities and overarching provisions.
- 6. Feeding stuffs and fertilisers
  - Animal feed and fertilisers.

In keeping with the changed emphasis that withdrawal from the European Union is likely to bring, the reports now attempt to include developments in Codex (*Codex Alimentarius*) and other major trading blocs such as the US. International and European measures are cited along with the implementing domestic legislation. Potentially temporary and local measures, such as prohibition legislation for shellfish harvesting areas, have not been recorded.

Please note – key information to maintain a permanent introduction to relevant legislation in certain areas is carried forward from previous reports, however legislation in force and made prior to July 2017 may not necessarily be reiterated herein. No responsibility can be taken for the use made of any view, information or advice given. In particular, any view, information or advice given should not be taken as an authoritative statement or interpretation of the law, as this is a matter for the courts.

For any specific legislation this document should be read with the actual measure. Readers must always come to their own view on legislation in force, with expert public analyst and/or legal assistance if appropriate.

The sources of information used have been Office of Public Sector Information (OPSI), Food Standards Agency (FSA) updates, European Food Safety Authority (EFSA) and the European legislative information database, EUR-Lex. Extensive use has been made of the explanatory notes and recitals that accompany legislation. Hyperlinks in the document were accessed and available at the date of this report. The reports are not indexed but the Table of Contents is extensive.

A companion series on standards published by the European standardisation organisation, CEN, some of which are relevant to chemical measurement in support of regulation, is also published on the Government Chemist website.

For successive quarterly reports new entries are identified by a side bar. Redundant material will be progressively removed but may be found in the previous editions.

# **Summary**

This report updates our legislation review with developments in food and feed law and related scientific and regulatory issues for the period from July to September 2017.

#### **Exiting the EU**

The European Union (Withdrawal) Bill (the Repeal Bill) passed its Second Reading in the House of Commons on 7 September 2017 (Section 1.1).

# Regulation and enforcement

The Food Standards Agency (FSA) published a key paper on the fundamental redesign of its regulatory role and of the way in which regulation is delivered. The changes the FSA wants to make include:

- An enhanced system of registration for businesses;
- Segmenting businesses in a better way using a range of risk indicators based on wider information about the business, including the information gathered at registration;
- Introduction of more options for businesses to prove compliance;
- Aiming for the Food Hygiene Rating Scheme to become mandatory in England as it is in Wales and Northern Ireland. (Section 1.3)

The Department for Business, Energy & Industrial Strategy (BEIS) made regulations underpinning the Primary Authority scheme, allowing businesses to form partnerships with local authorities to receive advice on regulatory matters. The measure specifies which regulators may provide support, describes what is regarded as enforcement action and the circumstances in which an enforcing authority does not have to notify the primary authority before it takes action. There are procedures for reference to the BEIS Secretary of State where there is dispute between the parties in relation to whether or not an enforcement action should go ahead. (Section 5.6.1)

In September the FSA published official statistics on food law enforcement by local authorities for the year 2016/17. These new data show an increase in food hygiene compliance in food establishments, however there was a decrease in the number of planned interventions for food standards, which covers areas such as authenticity and food fraud. FSA intends to use the data, along with other intelligence, to identify and target underperforming local authorities and work with them to secure improvements. (Section 5.9)

#### Codex and FAO

The 40<sup>th</sup> Session of the Codex Alimentarius Commission was held in July in Geneva. The decisions included guidelines on nutrition labelling; maximum residue limits for pesticides, certain food additives, lead in processed fruits and vegetables, and certain veterinary drugs; a code of practice for prevention and reduction of arsenic contamination in rice; and standards for cumin, thyme, and pepper. (Section 1.2)

The Food and Agriculture Organization of the United Nations (FAO) published a report on the future of food and agriculture. The report highlights a number of global trends which pose a series of challenges to food and agriculture. (Section 1.12)

# Contaminants and other technical changes

Acute health risks from the presence of cyanogenic glycosides in raw apricot kernels and their derived products were addressed by a maximum limit for hydrocyanic acid of 20 µg kg<sup>-1</sup>. Amygdalin, the major cyanogenic glycoside, is degraded to hydrocyanic acid (cyanide) by chewing. (Section 2.2.3)

Recognition of pre-export checks carried out by United States authorities on aflatoxins in groundnuts was withdrawn following an increase of non-compliance. (Section 5.8)

Amendments to **Materials and Articles in Contact with Food** Regulations were made in Northern Ireland and Wales. The main effect was to remove certain offences so as to enable improvement notices more swiftly to require the same compliance. The failure to comply with an improvement notice then becomes the offence. (Section 2.6)

Natural Mineral Water, Spring Water and Bottled Drinking Water Regulations in Scotland and Wales were again amended as a result of amendments to their European measures and to clarify enforcement provisions, in particular to remove obligations on food authorities to monitor substances such as ammonia and oxidisability in spring water and bottled water that relate more properly to non-bottled water supplies. The Scottish regulations have now been amended many times and appear to be a prime candidate for consolidation. (Section 2.15)

The Commission removed from the EU permitted list the **flavouring** substance 4,5-epoxydec-2(trans)-enal following European Food Safety Authority (EFSA) safety concerns with respect to genotoxicity. (Section 2.4.8)

A set of 23 **genetically modified** maize plant products were (re)-authorised, subject to the conditions specified in the respective regulations in July 2017. The authorisations were for use in food and food ingredients, feed, or any other use with the exception of cultivation. (Section 3.4)

#### **Dual quality food products**

The issue of dual quality food products has been a source of growing concern. In September 2017 the Commission issued a notice stating that although free movement of goods is one of the fundamental freedoms of the Single Market it does not mean that every product must be identical in every corner of the Single Market. However, EU legislation on the safety of products, labelling or other horizontal or sectoral legislation must be fully respected and different composition of identically branded goods having the potential to mislead the consumer would be a source of concern. The notice lists actions taken and the relevant legislation, with advice on its application, including cross border cooperation and a flow chart to help assess unfair business practices in the case of branded food products. (Section 3.2)

#### **Novel foods**

Two novel foods were approved for use in food supplements. L-ergothioneine, reputed to exhibit antioxidant and cytoprotective capabilities, has been permitted as an ingredient of food supplements for the general population (excluding pregnant and lactating women) with certain maximum limits. An enzyme preparation of prolyl oligopeptidase produced with a genetically modified strain of *Aspergillus niger* was also approved for use in supplements. (Section 4.4)

# **Transmissible Spongiform Encephalopathies**

Northern Ireland, Scotland and Poland were recognised as having a negligible BSE risk. England and Wales remain currently listed as countries with a controlled BSE risk. (Section 2.11)

#### **Anaphylaxis**

Anaphylaxis to the trigger allergen by a sensitised individual is disturbing and sometimes fatal, and requires the rapid parenteral (intramuscular) administration of adrenalin. New regulations allow adrenaline auto-injectors to be administered in schools in an emergency to pupils who are known to require it in England and Northern Ireland. (Section 2.1)

#### **Sprouted seeds and STEC**

The Enterohemorrhagic *Escherichia coli* (EHEC) crisis of 2011, focused mainly in Germany, infected almost 4,000 people with 53 deaths. Following EFSA's opinion on the risk posed by Shiga toxin-producing *Escherichia coli* (STEC) and other pathogenic bacteria in seeds and sprouted seeds new EU legislation was brought in. The legislative requirements and comprehensive instructions on hygienic practices for the safe production of sprouts and seeds for sprouting were included in a guideline produced by the European Sprouted Seeds Association and published by the Commission in the Official Journal. (Section 2.14.1)

#### Case law

The European Court held that the term 'milk' and the designations reserved for milk products must not be used to designate a purely plant based product in marketing or advertising, even if those terms are expanded upon indicating the plant origin of the product at issue. (Section 3.3.4)

The European Court upheld the refusal of the Commission to authorise a series of health claims despite favourable EFSA opinions. The claims related to the metabolism of glucose. The Commission relied upon Regulation (EC) No 1924/2006 powers to withhold authorisation if health claims do not comply with general requirements. The glucose health claims, it was held, would convey a conflicting and confusing message to consumers, because it would encourage consumption of sugars which consumers are advised to reduce. (Section 4.1.1)

A series of cases on 'desinewed meat' (DSM) and mechanically separated meat (MSM) reached the Court of Appeal with judgement given in May 2017. The European Court had held that the relevant provisions must be interpreted as meaning that a product claimed to be DSM rather than MSM must be classified as MSM. In the light of this the FSA appealed a previous High Court judgement that found in favour of DSM. The appeal was allowed, further concluding that the European Court judgement, properly understood, was conclusive and left no scope for argument as to the application of the law to the facts. (Section 3.3.5)

# **Contents**

1	Cros	ss-cutting issues	8	
1	.1	Exiting and new partnership with the European Union	8	
1	.2	Codex Alimentarius	8	
1	.3	FSA Food regulation – 'Regulating our Future', 'RoF'		
1	.4	Regulation (EU) No 2017/625 on official controls		
1	.5			
1	.6	Emerging risks		
1	.7	Food fraud/food crime	10	
1	.8	Incidents	12	
1	.9	Data science		
1	.10	Global data		
1	.11	Machinery of Government	13	
1	.12	Food and Agriculture Organisation, FAO	14	
1	.13	The Transatlantic Trade and Investment Partnership (TTIP)	14	
2	Foo	od safety	14	
2	.1	Food hypersensitivity – (Food Allergy & Food Intolerance)	14	
2	.2	Contaminants	16	
	2.2.	1 Sampling and analysis for contaminants	16	
	2.2.2	2 Mycotoxins	17	
	2.2.3	3 Cyanide in raw apricot kernels	17	
	2.2.4	4 Dioxins and related compounds	17	
2	.3	Non regulated contaminants	18	
	2.3.	1 Acrylamide	18	
2	.4	Food additives	18	
	2.4.	1 Casein and caseinates	19	
	2.4.2	2 Gel forming additives in jelly confectionery	19	
	2.4.3	3 Potassium carbonate	19	
	2.4.4	4 Propellants in colour preparations	20	
	2.4.	5 Sulphites	20	
	2.4.6	6 Additives in wine	20	
	2.4.7	7 Additives in additives	20	
	2.4.8	8 Flavourings	21	
2	.5	Extraction solvents	21	
2	.6	Food contact materials	21	
	2.6.	1 Mineral oil hydrocarbons (MOH)	22	
2	.7	Marine biotoxins	23	
2	2.8 Pesticides			

	2.8.	1	Biocidal Products	24
	2.9	Pro	ducts of animal origin	25
	2.10	Rac	lioactivity	25
	2.11	Trai	nsmissible spongiform encephalopathies	25
	2.12	Tox	icology	26
	2.13	Vet	erinary residues	26
	2.14	Foo	d Hygiene	27
	2.14.1		Enterohemorrhagic Escherichia coli - seeds and sprouted seeds	29
	2.14	1.2	Food hygiene rating schemes	29
	2.15	Wat	er for human consumption	30
	2.16	Psy	choactive substances	33
	2.17	Her	bal products and medicines	35
3	Con	sum	er choice	35
	3.1	Foo	d labelling	36
	3.1.	1	Country of origin labelling	36
	3.1.2	2	Fish labelling	37
	3.1.3	3	Defra food labelling guidance	37
	3.1.4	4	Organic food	37
	3.1.	5	Net Quantities	38
	3.1.0	6	Protected names and quality schemes	38
	3.2	Dua	ll quality products	38
	3.3	Con	nposition	39
	3.3.	1	Casein and caseinates	39
	3.3.2	2	International Standards for Fruit and Vegetables	40
	3.3.3	3	Honey	40
3.3		4	Marketing of agricultural products	41
	3.3.	5	Meat and meat products	41
	3.3.0	6	Olive oil and table olives	43
	3.3.	7	Spices	43
	3.3.8	8	Spirit drinks etc.	44
	3.3.9	9	Wine	44
	3.3.	10	Water in frozen poultry	44
	3.4	Ger	netically modified organisms	47
	3.4.	1	Cultivation of GMOs	47
	3.5	Clo	ned animals	47
	3.6	Nov	rel foods	48
	3.7	Cor	sumer attitudes	48
	3.8	The	Consumer Rights Act 2015	50

4		Health and nutrition			. 50
	4.	.1	Nutr	rition and health claims	. 50
		4.1.1		Case law – ability to withhold authorisation despite EFSA favourable opinion	. 52
		4.1.2		Committee on Advertising Practice, CAP	. 52
	4.	4.2 Fo		d for infants and young children, medical purposes and weight control	. 52
	4.	.3	Sug	ar	. 54
	4.	.4	Foo	d supplements	. 55
		4.4.1	l.1 L-ergothioneine – novel food		. 56
		4.4.2	2	Prolyl oligopeptidase – novel food	56
	4.	.5	Obe	sity and healthy eating	. 56
5		Reg	ulatio	on	. 57
	5.	.1	International Developments		. 57
	5.	.2	Con	nmunity Reference Laboratories	. 58
	5.	.3	Ехр	ert Scientific Committees	. 58
	5.	.4	Foo	d Law Code of Practice	. 58
	5.	.5	Foo	d law prosecutions database	. 59
	5.	.6	Foo	d law enforcement	. 59
	5.6.1		l	Primary Authorities	. 59
	5.	.7	Foo	d Standards Scotland	. 59
	5.	.8	Imp	ort controls (contaminants, pesticides etc)	. 59
	5.	.9	Loca	al authority enforcement activity	. 60
	5.	.10	Multi-Annual National Control Plan	. 61	
	5.	5.11 Nat		onal sampling priorities for food surveillance	. 61
	5.	5.12 Onl		ne sales and surveillance	. 61
	5.	.13 Reg		ulators' development needs analysis, RDNA	. 61
	5.	5.14 Sta		ndards in Public Life	. 62
	5.	.15	Offic	cial Food Chain Requirements and Methods of Analysis	. 62
	5.	.16	Corp	porate Reports	. 62
6		Feed	ding	stuffs and fertilisers	. 63
	6.	.1	Fee	ding stuffs	. 63
		6.1.1	l	Mycotoxin recommended limits	. 64
	6.1.2		2	Dioxin testing	. 64
		6.1.3 6.1.4		Nickel in feed	. 65
(				Starch content – analytical methods differ	. 65
	6.	.2	Fee	d additives	. 65
		6.2.1	l	Community and National Reference Laboratories	. 66
	6.	.3	Fert	ilisers	. 66
7		Ackr	nowle	edgements	. 66

# 1 Cross-cutting issues

# 1.1 Exiting and new partnership with the European Union

Background information is at Section 1.1 of our previous reports. 1,2

The Department for Exiting the European Union maintains a rolling list of events and policy.<sup>3</sup> The European Union (Withdrawal) Bill (known as the Repeal Bill) passed its Second Reading in the House of Commons on 7 September 2017. The Bill will move to Committee Stage in the coming weeks as it continues its passage through Parliament.

The European Commission also maintains a rolling list of events and papers.<sup>4</sup>

#### 1.2 Codex Alimentarius

The *Codex Alimentarius*, or 'food code', is the global reference point for consumers, food producers and processors, national food control agencies and the international food trade.<sup>5</sup> A 2016 publication, 'Understanding Codex'<sup>6</sup> is a valuable guide to its operation. The core function of Codex is the development of international standards. Links to recent sessions of Codex committees in a variety of commodity areas are provided in Section 1.2 of our April – June 2017 report.<sup>7</sup>

The 40<sup>th</sup> Session of the Codex Alimentarius Commission was held from 17-22 July 2017 in Geneva. The decisions included:

- Guidelines on nutrition labelling (nutrition information on food packaging for consumers)
- Code of hygienic practice for fresh fruits and vegetables
- Maximum residue limits for more than 20 pesticides in various foods
- Maximum levels of certain food additives
- Maximum level of lead in processed fruits and vegetables
- Maximum residue limits in meat for veterinary drugs (ivermectin, lasalocid sodium and teflubenzuron)
- Code of practice for the prevention and reduction of arsenic contamination in rice
- Standards for cumin, thyme, & black, white, green pepper.

New work proposed included the Codex task force on antimicrobial resistance, establishing maximum levels of mercury in fish, guidelines for risk analysis of chemicals inadvertently present in food at low levels, and a new code of practice for reduction of chemical contaminants in refined oils and products made with refined oils such as palm oil.<sup>8</sup>

Details of other recent Codex meetings and reports are available <u>here</u>.

https://www.gov.uk/government/publications/food-and-feed-law-update-january-march-2017

https://www.gov.uk/government/publications/food-and-feed-law-legislation-review-april-to-june-2017

https://www.gov.uk/government/policies/brexit

https://ec.europa.eu/commission/brexit-negotiations\_en

http://www.fao.org/fao-who-codexalimentarius/home/en/

http://www.fao.org/3/a-i5667e.pdf

https://www.gov.uk/government/publications/food-and-feed-law-legislation-review-april-to-june-2017

http://www.fao.org/fao-who-codexalimentarius/meetings-reports/detail/en/?meeting=CAC&session=40

# 1.3 FSA Food regulation – 'Regulating our Future', 'RoF'

The Food Standards Agency, FSA, published on 19 July 2017 a key paper<sup>9</sup> on the fundamental redesign of the FSA's regulatory role and of the way in which regulation is delivered. The paper details the changes the FSA wants to make including:

- An enhanced system of registration for businesses, better to identify and manage risk with the aim to create a hostile environment for those businesses that do not proactively register;
- Segmenting businesses in a better way using a range of risk indicators based on wider information about the business, including the information gathered at the point of registration and from other sources;
- Introduction of more options for businesses to prove compliance. Depending on how
  robust the information that businesses share is, including their past performance, FSA will
  set the frequency and type of inspection activity they face. Businesses with a good history
  of compliance should face a lower burden from regulation, and free local authority
  resources to target the businesses that present the greatest risk to public health;
- FSA will continue to ensure the Food Hygiene Rating Scheme is sustainable and display becomes mandatory in England as it is in Wales and Northern Ireland.

Background to RoF is in Section 1.3 of our April – June 2017 report. 10

# 1.4 Regulation (EU) No 2017/625 on official controls

Regulation (EC) No 882/2004 on official controls was replaced by Regulation (EU) 2017/625 of the European Parliament and of the Council of 15 March 2017 on official controls and other official activities.<sup>11, 12</sup> Background to this was given in a previous edition of this report.<sup>13</sup> Regulation 2017/625 supplements Regulation (EC) No 178/2002<sup>14</sup> and, stemming from the Treaty on the Functioning of the European Union,<sup>15</sup> aims for a high level of:

- Protection of human, animal and plant health and of the environment via veterinary and phytosanitary measures,
- · Consumer protection in the internal market,
- Animal welfare along the agri-food chain.

A fuller discussion of Regulation (EU) 2017/625 is at Section 1.4 of our April – June 2017 report.  $^{10}$ 

# 1.5 Antimicrobial resistance, AMR

It has been estimated that the global impact of AMR could be 10 million deaths annually by 2050, and cost up to US \$100 trillion in cumulative lost economic output. An FSA commissioned research report confirmed the need for extra surveillance of AMR in food at retail level, to support the wider programme of work currently underway across government to help reduce levels of

https://www.food.gov.uk/news-updates/news/2017/16363/fsa-publishes-plans-future-regulation

https://www.gov.uk/government/publications/food-and-feed-law-legislation-review-april-to-june-2017

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.095.01.0001.01.ENG&toc=OJ:L:2017:095:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1505320836050&uri=CELEX:02017R0625-20170407
Walker M. J. (2017) Food and Feed Law: legislation review, January – March 2017, Section 5, pp 45 – 48,

https://www.gov.uk/government/publications/food-and-feed-law-update-january-march-2017

Latest consolidated version at time of writing that of 30.06.2014: <a href="http://eur-lex.europa.eu/legal-">http://eur-lex.europa.eu/legal-</a>

content/EN/TXT/?qid=1498146098818&uri=CELEX:02002R0178-20140630 http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:12012E/TXT

Prof Guy Poppy, FSA Chief Scientific Adviser's Science Report Issue four: Antimicrobial resistance in the food supply chain <a href="https://www.food.gov.uk/sites/default/files/csa-amr-report\_0.pdf">https://www.food.gov.uk/sites/default/files/csa-amr-report\_0.pdf</a>

AMR. The research was released ahead of a *Codex Alimentarius* working group on AMR held in London in late 2016.<sup>17</sup> The working group was organised by the FSA and chaired by the UK, USA and Australia. It was the first step in this new area of work, and set terms of reference for the intergovernmental task force that followed.<sup>18</sup> On 17 February 2017 the Codex Secretariat published<sup>19</sup> the report of the working group on AMR mentioned above. The report is available online as a working document of the 40<sup>th</sup> Codex Alimentarius Commission which took place in Geneva in July 2017 (see Section 1.2). Also of interest is the FAO-led Multi-stakeholder Partnership for Capacity Development for Feed Safety<sup>20</sup> and FAO has produced a useful report on the 'drivers, dynamics and epidemiology of antimicrobial resistance in animal production'.<sup>21</sup>

The European Commission published in July 2017 EU Guidelines for the prudent use of antimicrobials in human health, (2017/C 212/01).<sup>22</sup>

# 1.6 Emerging risks

The Emerging Risks Exchange Network, EREN, has been referred to in previous reports<sup>23, 24</sup> and regularly updates outline emerging risks in brief meeting reports.<sup>25</sup>

#### 1.7 Food fraud/food crime

Food fraud is a dishonest act or omission in the production or supply of food intended for personal gain or to cause loss to another party. Food fraud becomes food crime when its scale is more complex or likely to be seriously detrimental to consumers, businesses or the overall public interest, or when organised criminals are involved. The criminal activity may be cross-regional, national or international. The concept of 'food crime' was highlighted by the Elliott Review which led to the establishment of the FSA's National Food Crime Unit, <sup>26</sup> NFCU. Food Standards Scotland independently established a Scottish Food Crime and Incidents Unit (SFCIU). <sup>27</sup>

In 2016 the NFCU launched 'Food Crime Confidential', a reporting facility where anyone with suspicions about food crime can report them safely and in confidence, over the phone and through email. The facility is particularly targeted at those working in or around the UK food industry.<sup>28</sup> This followed the 2016 review of the NFCU carried out by FSA under the oversight of an independent steering group, which recommended NFCU should be given additional powers and resources to boost its ability to tackle food crime and protect consumers.<sup>29</sup> The NFCU launched an industry guide on 31 October 2016 explaining the NFCU's role and how it can support industry, as the first step in building a meaningful two way dialogue between the NFCU and the food, drink and feed industry.<sup>30</sup>

http://www.fao.org/fao-who-codexalimentarius/roster/detail/en/c/456452/

https://www.food.gov.uk/news-updates/news/2016/15746/fsa-publishes-review-of-antimicrobial-resistance-evidence

http://www.fao.org/fao-who-codexalimentarius/roster/detail/en/c/471647/ http://www.fao.org/fao-who-codexalimentarius/roster/detail/en/c/470458/

Food and Agriculture Organization. Drivers, dynamics and epidemiology of antimicrobial resistance in animal production – Wall B. A., <a href="http://www.fao.org/3/a-i6209e.pdf">http://www.fao.org/3/a-i6209e.pdf</a>

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C \_2017.212.01.0001.01.ENG&toc=OJ:C:2017:212:TOC

https://www.gov.uk/government/publications/food-and-feed-law-legislation-review-january-to-march-2016

https://www.gov.uk/government/publications/food-and-feed-law-update-january-march-2017

https://www.efsa.europa.eu/en/topics/topic/emergingrisks

https://www.food.gov.uk/enforcement/the-national-food-crime-unit

http://www.foodstandards.gov.scot/food-crime

https://www.food.gov.uk/news-updates/news/2016/15226/food-crime-confidential-launch

https://www.food.gov.uk/news-updates/news/2016/15679/nfcu-review-published

https://www.food.gov.uk/news-updates/news/2016/15642/nfcu-launches-industry-guide

Science and technology company Campden BRI has been chosen to provide technical and administrative support to the Food Industry Intelligence Network, FIIN, by curating a database to collect anonymised industry data on food authenticity testing. They will analyse the data producing regular reports for the FIIN members. Campden BRI will also be responsible for managing the FIIN membership and organising FIIN events. FIIN was established by industry technical leaders to share intelligence on food authenticity. FIIN currently has 21 members in the UK including major retailers, manufacturers and food service companies.<sup>31</sup>

In early 2016 the Food Standards Agency (FSA) published<sup>32</sup> the first assessment of food crime in the UK, the Food Crime Annual Strategic Assessment (FCASA). Readers are referred to the FCASA for a list of strategic food crime priorities.

The United Nations Office on Drugs and Crime has published a 'World wildlife crime report 2016: Trafficking in protected species', which includes a case study on caviar in the seafood industry. The report as a whole provides good background context for a topic in which molecular biology has a significant role to play.

The European Commission IT tool to facilitate the exchange of administrative information between national authorities working to combat cross-border violations in Europe – known as the Administrative Assistance and Cooperation (AAC) system – was described in a previous report. In the wake of the horsemeat episode of 2013, the Commission<sup>34</sup> also developed an action plan to strengthen controls of the food supply chain. One of these measures was to set up a pan-European mechanism to ensure the rapid exchange of information between national authorities and the Commission in cases of suspected food fraud.<sup>35</sup> The AAC system will ensure that the Food Fraud Network works even more efficiently and is able to respond more swiftly to information requests.

In May 2016 the FDA Food Safety Modernization Act (FSMA) final rule was publicised aimed at preventing intentional adulteration from acts intended to cause wide-scale harm to public health, including acts of terrorism targeting the food supply. Such acts, while not likely to occur, could cause illness, death, economic disruption of the food supply if mitigation strategies are not in place. Rather than targeting specific foods or hazards, this rule requires mitigation (risk-reducing) strategies for processes in certain registered food facilities and a useful set of documents accompanies the fact sheet on this issue.<sup>36</sup>

A resolution of the European Parliament on food fraud, begun in 2014, has been debated and was published in December 2016. The Parliament noted its concern and has proposed a series of measures.<sup>37</sup>

Although not related to food, a recent report, Trade in Counterfeit Products and the UK Economy, Fake Goods, Real Losses may be of interest because it measures the direct, economic effects of counterfeiting on (a) consumers, (b) retail and manufacturing industry and (c) governments in the

https://www.campdenbri.co.uk/pr/food-fraud.php

https://www.food.gov.uk/news-updates/news/2016/15017/the-food-standards-agency-fsa-has-today-published-the-first-assessment-of-food-crime-in-the-uk

https://www.unodc.org/documents/data-and-analysis/wildlife/World Wildlife Crime Report 2016 final.pdf

http://ec.europa.eu/food/safety/official\_controls/food\_fraud/horse\_meat/index\_en.htm

http://ec.europa.eu/food/safety/official\_controls/food\_fraud/index\_en.htm http://www.fda.gov/Food/GuidanceRegulation/FSMA/ucm378628.htm

Food crisis, fraud in the food chain and the control thereof, European Parliament resolution of 14 January 2014 on the food crisis, fraud in the food chain and the control thereof (2013/2091(INI)) <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C..2016.482.01.0022.01.ENG&toc=OJ:C:2016:482:TOC">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C..2016.482.01.0022.01.ENG&toc=OJ:C:2016:482:TOC</a>

United Kingdom. It covers the impact of fake products imported into the UK, and the impact of the global trade in fake products on UK intellectual property rights holders.<sup>38</sup>

The authenticity of marine species often depends on the correct taxonomic identification of species for which DNA profiles are uploaded to public databases such as the Barcode of Life Data System (BOLD)<sup>39</sup> and the National Center for Biotechnology Information (NCBI) GenBank.<sup>40</sup> Hence we welcome the publication of 'Marine species biological data collection manual: an illustrated manual for collecting biological data at sea'.<sup>41</sup>

See also Section 3.3.3 on honey fraud detection.

#### 1.8 Incidents

In June 2016 the FSA published<sup>42</sup> its annual report of 2015 food incidents. It showed that in 2015, the FSA and Food Standards Scotland, FSS, were notified of, investigated and managed 1,514 food, feed and environmental contamination incidents in the UK. The four largest contributors in 2015 were: pathogenic micro-organisms, allergens (which increased from 89 to 206), chemical contamination and residues of veterinary medicinal products.

FSA has published a series of within year lists of incidents.<sup>43</sup> Over the three month period from July – September 2016, FSA issued 54 food notices, of which 30 were allergy alerts, with the top three undeclared allergens being egg, nuts and mustard. The latest available quarterly update is that of 31 January 2017 which covered October – December 2016.<sup>44</sup> Over the three month period, FSA issued 34 food notices, of which 17 were allergy alerts, with the top three undeclared allergens being milk, nuts and [cereals containing] gluten.

#### 1.9 Data science

International trade in agricultural and food products is more complex than other trade – regulations are stricter, paperwork more cumbersome and logistics more complex – mainly for safety and authenticity reasons. Detailed information exchange alongside the movement of goods in a supply chain is critically important and progress has been made in electronic, paperless, systems.

In April 2017 FSA published<sup>45</sup> a report on data science from its Chief Scientific Adviser Professor Guy Poppy, his sixth Science Report. Advances in data science techniques are making the large amounts of data collected by the FSA and food businesses more valuable. The report shows how the Agency is bringing together a wide range of data, from the complex food industry 'ecosystem' to social media and consumer preferences, to explore ways that it can meet its regulatory responsibilities going forward and become data-driven. This also includes working in partnership on research with University College London's Big Data Institute and the Office for National Statistics amongst others, to get the best value from data as well as supporting FSA objectives

http://www.oecd.org/unitedkingdom/trade-in-counterfeit-products-and-the-uk-economy-9789264279063-en.htm

Ratnasingham, S. and Hebert, P. D. N. (2007) BOLD: The Barcode of Life Data System. Molecular Ecology Notes. http://www.boldsystems.org/www.barcodinglife.org

National Center for Biotechnology Information, U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894 USA. <a href="http://www.ncbi.nlm.nih.gov/">http://www.ncbi.nlm.nih.gov/</a>

http://www.fao.org/3/a-i6353e.pdf

http://www.food.gov.uk/news-updates/news/2016/15190/fsa-annual-report-of-incidents-2015-published

https://www.food.gov.uk/news-updates/news/2016/15641/fsa-publishes-list-of-incidents-for-july-to-september-2016 https://www.food.gov.uk/news-updates/news/2017/15935/fsa-publishes-list-of-incidents-for-october-to-december-2016

https://www.food.gov.uk/news-updates/news/2017/16129/science-report-published-on-use-of-data-science-in-the-fsa

and learning with and from others. Data Science is feeding into the implementation of the Agency's innovative new Surveillance Strategy and the 'Regulating our Future' change programme which is redesigning the FSA's regulatory role.

A United Nations publication outlines a framework for integrated agri-food information management, taking into account the functional needs of various stakeholders along the supply chain. The benefits as well as challenges involved in developing a comprehensive system are discussed. Some examples of existing paperless systems – which are considered good practices for agri-food trade – are also included together with the list of relevant international standards to be taken into account when implementing the systems. Practical recommendations for, and milestones in the enhancement of agri-food information systems for trade facilitation are provided, including a recommendation to develop a Single Window for Agri-food Trade (SWAT). This publication is aimed mainly at government officials involved in overseeing and making policies related to agri-food trade. It is also relevant to the private sector (both existing and potential traders), associations and any agri-food supply-chain stakeholders interested in making agri-food trade both safer and more efficient. This policy guide builds on the series of technical and legal guides produced by UNNExT to facilitate paperless trade implementation. <sup>46</sup> Previous guides are also available. <sup>47</sup>

#### 1.10 Global data

Two useful compendia of data were published in late 2016: the World Bank 'Little green data book 2016'.<sup>48</sup> and the United Nations 'World statistics pocketbook 2016'.<sup>49</sup> The former is a ready reference on key environmental data for over 200 economies, organised under the headings of agriculture, forestry, biodiversity, energy, emission and pollution, and water and sanitation. The latter presents one-page profiles of 229 countries or areas of the world. The topics covered include: agriculture, balance of payments, education, energy, environment, food, gender, health, industrial production, information and communication, international finance, international tourism, international trade, labour, migration, national accounts, population and prices.

The European Commission published in December 2016 another edition of the common catalogue of varieties of agricultural plant species in accordance with the provisions of Article 17 of Council Directive 2002/53/EC of 13 June 2002 on the common catalogue of varieties of agricultural plant species. This 35<sup>th</sup> edition, which runs to over 800 pages, lists all the varieties, the seeds of which, pursuant to Article 16 of the Directive, are not subject to marketing restrictions relating to variety, except in the cases provided for in Article 16(2) and Article 18 of the Directive.<sup>50</sup>

### 1.11 Machinery of Government

An Order in Council<sup>51</sup> was made under sections 1 and 2 of the Ministers of the Crown Act 1975 to make provisions in connection with the establishment of the Department for Business, Energy and Industrial Strategy, the Department for Exiting the European Union, (and other departments).

http://data.worldbank.org/products/data-books/little-green-data-book

<sup>46</sup> Information management in agrifood chains: towards an integrated paperless framework for agrifood trade facilitation http://unnext.unescap.org/pub/agriguide15.pdf

<sup>47 &</sup>lt;a href="http://unnext.unescap.org">http://unnext.unescap.org</a>

http://unstats.un.org/unsd/publications/pocketbook

Common catalogue of varieties of agricultural plant species — 35th complete edition

The Secretaries of State for Business, Energy and Industrial Strategy, for International Trade and for Exiting the European Union and the Transfer of Functions (Education and Skills) Order 2016 No. 992, <a href="http://www.legislation.gov.uk/uksi/2016/992/pdfs/uksi">http://www.legislation.gov.uk/uksi/2016/992/pdfs/uksi</a> 20160992 en.pdf

# 1.12 Food and Agriculture Organisation, FAO

The Food and Agriculture Organization of the United Nations, FAO, published in August 2017 a major report on the future of food and agriculture.<sup>52</sup> The report highlights a number of global trends influencing food security including global population growth, dietary transition to higher consumption of meat, fruits and vegetables, relative to that of cereals, reduced productivity growth, waste, and loss of biodiversity. Hunger and extreme poverty have been reduced globally since the 1990s. Yet, around 700 million people, most of them living in rural areas, are still extremely poor today. In addition, despite undeniable progress in reducing rates of undernourishment and improving levels of nutrition and health, almost 800 million people are chronically hungry and 2 billion suffer micronutrient deficiencies. Conflicts, crises and natural disasters appear to be increasing in number and intensity. These trends pose a series of challenges to food and agriculture that the report elaborates on.

# 1.13 The Transatlantic Trade and Investment Partnership (TTIP)

In July 2017 the European Parliament published a resolution giving detailed recommendations to the Commission on TTIP.<sup>53</sup>

# 2 Food safety

# 2.1 Food hypersensitivity – (Food Allergy & Food Intolerance)

Background to this topic is to be found in papers published or contributed to from the Government Chemist capability building research on food allergen measurement. Significant developments over recent years include a conviction and custodial sentence for negligence manslaughter following the death of a peanut allergic customer who had a reaction to a curry. Following the cumin and mahaleb cases, guidance launched on 7 June 2016 provides food companies that use culinary dried herbs and spices with information on best practice in assessing and protecting the authenticity of these products. The guidance was developed by the British Retail Consortium (BRC), Food and Drink Federation (FDF) and Seasoning and Spice Association (SSA) in liaison with the FSA and FSS. Significant constraints to product the seasoning and Spice Association (SSA) in liaison with the FSA and FSS.

Changes to European legislation took effect in mid-2016 which affect gluten-free labelling. Regulation (EC) No 41/2009 provided a legal framework around the term gluten-free and was repealed on 20 July 2016. From this date, rules relating to gluten are provided by Regulation (EU) No 1169/2011 on the provision of food information to consumers (FIC), and Commission

14

FAO. 2017. The future of food and agriculture – Trends and challenges. Rome, http://www.fao.org/3/a-i6583e.pdf

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C .2017.265.01.0035.01.ENG&toc=OJ:C:2017:265:TOC
 Johnson *et al.* (2014) A multi-laboratory evaluation of a clinically-validated incurred quality control material for analysis of allergens in food, *Food Chem.*, 148: 30-36

Gowland M. H. and Walker M. J. (2015) Food allergy, a summary of eight cases in the UK criminal and civil courts: effective last resort for vulnerable consumers?, J. Sci. Food Agric., 95: 1979-1990

Holcombe et al. (2015) A peanut quality control material to improve allergen analysis – How difficult can it be?, Clin. Transl. Allergy, 5(Suppl 3): P116

Walker et al. (2016) Flawed food allergen analysis—health and supply chain risks and a proposed framework to address urgent analytical needs, Analyst, 141: 24-35

http://www.bbc.co.uk/news/uk-england-36360111

https://www.fdf.org.uk/news.aspx?article=7539

https://www.fdf.org.uk/herbs-spices-guidance.aspx

Implementing Regulation (EU) No 828/2014;<sup>61</sup> national provisions will allow enforcement at UK level.<sup>62</sup>

Regulation (EU) No 828/2014 stipulates that the statement "gluten-free" may only be made where the food as sold to the final consumer contains no more than 20 mg kg<sup>-1</sup> of gluten. The statement "very low gluten" may only be made where the food, consisting of or containing one or more ingredients made from wheat, rye, barley, oats or their crossbred varieties which have been specially processed to reduce the gluten content, contains no more than 100 mg kg<sup>-1</sup> of gluten in the food as sold to the final consumer. Additionally, oats contained in a food presented as gluten-free or very low gluten must have been specially produced, prepared and/or processed in a way to avoid contamination by wheat, rye, barley, or their crossbred varieties and the gluten content of such oats cannot exceed 20 mg kg<sup>-1</sup>.

National provisions were made by the Food Information (Scotland) Amendment Regulations 2016,191,<sup>63</sup> which came into force on 20 July 2016. These affect SSI 2014/312 which is amended, and SSI 2010/355 which is revoked. These Regulations make provision to enforce in Scotland the requirements of Commission Implementing Regulation (EU) No 828/2014 on the requirements for the provision of information to consumers on the absence or reduced presence of gluten in food ("Regulation 828/2014"). Regulation 2 makes amendments to the Food Information (Scotland) Regulations 2014 to ensure that Articles 3(1) and 4 of Regulation 828/2014 can be enforced. In particular, they have the effect of making it an offence to fail to comply with those Articles and they ensure that powers of entry are available under section 32 of the Food Safety Act 1990 for the purposes of enforcing those Articles. Regulation 3 revokes the Foodstuffs Suitable for People Intolerant to Gluten (Scotland) Regulations 2010.

Commission Implementing Regulation (EU) No 828/2014 was also implemented:

- In Northern Ireland by the Food Information (Amendment) Regulations (Northern Ireland) 2016.<sup>64</sup> The Foodstuffs Suitable for People Intolerant to Gluten Regulations (Northern Ireland) 2010 were revoked (note the explanatory note to the 2016 regulations incorrectly cites the latter as 2016 rather than 2010);
- In Wales by the Food Information (Wales) (Amendment) Regulations 2016<sup>65</sup> which revoke the Foodstuffs Suitable for People Intolerant to Gluten (Wales) Regulations 2010.

The fifth FSA Chief Scientific Adviser's report by Professor Guy Poppy focused on food allergy and intolerance, explaining in a readable way the complex and evolving science behind these conditions. The report was launched on 4 November 2016 at a Food Allergy and Food Intolerance Research Programme workshop in London.<sup>66</sup>

The Food Standards Agency publishes regular reports of surveys into information about the public's self-reported behaviours, attitudes and knowledge relating to food issues. The latest such report, published on 30 March 2017,<sup>67</sup> (see section 3.7) reported on food allergy and intolerance. Of those who reported an adverse reaction or avoided certain foods, the most common foods that people reported having an adverse reaction to were cows' milk and cows' milk products (22%), cereals containing gluten (13%) and molluscs, e.g. mussels, oysters (11%).

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1471529878473&uri=CELEX:32014R0828

https://www.coeliac.org.uk/about-us/news/changes-to-european-legislation-on-gluten-free-labelling/

http://www.legislation.gov.uk/ssi/2016/191/contents/made

https://www.food.gov.uk/sites/default/files/food-information-regulations-ni-2016.pdf

http://www.legislation.gov.uk/wsi/2016/664/made

https://www.food.gov.uk/news-updates/news/2016/15656/fifth-csa-report-launched

https://www.food.gov.uk/news-updates/news/2017/16111/latest-food-and-you-survey-report-published

Anaphylaxis to the trigger allergen by a sensitised individual, which is always disturbing and sometimes fatal, requires the rapid parenteral (intramuscular) administration of adrenalin. The Human Medicines (Amendment) Regulations 2017<sup>68</sup> allow auto-injectors containing adrenaline to be administered in schools in an emergency to pupils who are known to require such medication. The regulations apply to England and Northern Ireland.

#### 2.2 Contaminants

Regulation (EC) No 1881/2006 remains the primary European legislation, the latest consolidated version of which was published in April 2016.<sup>69</sup> Domestic implementation is via a set of 'Contaminants in Food' regulations made in each country of the UK in 2013, for example the Contaminants in Food (England) Regulations 2013.<sup>70</sup> A search of <a href="http://www.legislation.gov.uk/">http://www.legislation.gov.uk/</a> on the search term 'contaminants' will list the current statutory instruments, their amendments and predecessors. A useful summary of contaminant information is available on the European Commission website.<sup>71</sup> A guidance document for competent authorities for the control of compliance with EU legislation on aflatoxins is available. Please see below for further details on individual contaminants.<sup>72</sup>

See also section 5.8 on import controls which often feature mycotoxin controls.

#### 2.2.1 Sampling and analysis for contaminants

Commission Regulation (EC) No 333/2007 lays down the methods of sampling and analysis for the official control of levels of certain contaminants in foodstuffs. This was amended by Commission Regulation (EU) 2016/582 of 15 April 2016 as regards the analysis of inorganic arsenic, lead and polycyclic aromatic hydrocarbons and certain performance criteria for analysis. As recorded previously, Regulation (EC) No 1881/2006 was amended by Commission Regulation (EU) 2015/1006 to set maximum levels for inorganic arsenic. In light of this, specific procedures for analysis for inorganic arsenic are required. EN standard 13804 on the determination of elements and their chemical species has been updated. The maximum levels for polycyclic aromatic hydrocarbons (PAH) in cocoa beans and derived products are on a fat basis. Proficiency tests performed by the European Union Reference Laboratory for PAH indicate divergences in the determination of the fat content. It is therefore appropriate to harmonise the approach for the determination of the fat content. These changes are set out in Regulation (EU) 2016/582.<sup>73</sup>

Polychlorinated biphenyls, PCBs, are mentioned in Council Directive 96/23/EC 29 April 1996 on measures to monitor certain substances and residues thereof in live animals and animal products, the annexes of which deal with official sampling. The latest consolidated version is that of 1 July 2013.<sup>74</sup>

http://www.legislation.gov.uk/uksi/2017/715/contents/made

<sup>69</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1466704439817&uri=CELEX:02006R1881-20160401

http://www.legislation.gov.uk/uksi/2013/2196/contents/made

http://ec.europa.eu/food/safety/chemical\_safety/contaminants/index\_en.htm

https://ec.europa.eu/food/sites/food/files/safety/docs/cs\_contaminants\_sampling\_analysis-guidance-2010\_en.pdf http://eur-lex.europa.eu/legal-

content/EN/TXT/?uri=uriserv:OJ.L .2016.101.01.0003.01.ENG&toc=OJ:L:2016:101:TOC&mc\_cid=e1843f434a&mc\_eid=f1b 5809dbc

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1498122962393&uri=CELEX:01996L0023-20130701

#### 2.2.2 Mycotoxins

Previous quarterly reports should be consulted for information, e.g. on ergot, erucic acid and tropane alkaloids, and the impact of mycotoxins in developing countries.

In December 2016 an error was corrected in Commission Regulation (EC) No 401/2006 of 23 February 2006 laying down the methods of sampling and analysis for the official control of the levels of mycotoxins in foodstuffs. The error regarding units seems to have been introduced by Regulation (EU) No 519/2014 of 16 May 2014 in the table in Annex II that prescribed performance criteria for methods for the determination of aflatoxins. Concentrations were stated in mg kg<sup>-1</sup> and while it was no doubt generally recognised by practicing analysts that the units should be  $\mu g \ kg^{-1}$  in keeping with the limits, a Corrigendum was issued to make this clear.<sup>75</sup>

#### 2.2.3 Cyanide in raw apricot kernels

An EFSA opinion<sup>76</sup> has confirmed the acute health risks from the presence of cyanogenic glycosides in raw apricot kernels and their derived products owing to amygdalin, the major cyanogenic glycoside present, being degraded to hydrocyanic acid (cyanide) by chewing. Hydrocyanic acid (cyanide) is highly toxic and the acute reference dose would be exceeded by consumption of only a very few unprocessed apricot kernels. Thus Commission Regulation (EU) 2017/1237 of 7 July 2017<sup>77</sup> amended Regulation (EC) No 1881/2006 to set a maximum level for hydrocyanic acid of 20 µg kg<sup>-1</sup> in unprocessed whole, ground, milled, cracked, or chopped apricot kernels placed on the market for the final consumer. The operator who places these products on the market for the final consumer must provide upon request from the competent authority evidence of compliance with the maximum level. Sampling for the control of compliance with the maximum must be performed in accordance with part D.2 of Annex I to Commission Regulation (EC) No 401/2006.

## 2.2.4 Dioxins and related compounds

Regulation 1881/2006 establishes, with certain derogations, maximum levels for non-dioxin-like polychlorinated biphenyls (PCBs) dioxins and furans and for the sum of dioxins, furans and dioxin-like PCBs in certain foodstuffs. Please refer to previous editions of this review for further details.<sup>78</sup>

Commission Recommendation 2013/711/EU<sup>79</sup> sets out action levels for polychlorinated dibenzo-para-dioxins and polychlorinated dibenzofurans (PCDD/Fs) and dioxin-like PCBs in food. The action levels are a tool to be used by competent authorities and food business operators to highlight those cases where it is appropriate to identify a source of contamination and to take the necessary measures in order to reduce or eliminate it.

Commission Regulation (EU) 2017/644 of 5 April 2017<sup>80</sup> laid down methods of sampling and analysis for the control of levels of dioxins, dioxin-like PCBs and non-dioxin-like PCBs in certain foodstuffs and repealed Regulation (EU) No 589/2014. The rationale for additional control of sampling and analysis included ensuring that food business operators applying the controls

<sup>&</sup>lt;sup>75</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2016.337.01.0024.01.ENG&toc=OJ:L:2016:337:TOC

https://www.efsa.europa.eu/en/efsajournal/pub/4424

<sup>77 &</sup>lt;a href="http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.177.01.0036.01.ENG&toc=OJ:L:2017:177:TOC#ntr3-L\_2017177EN.01003601-E0003">http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.177.01.0036.01.ENG&toc=OJ:L:2017:177:TOC#ntr3-L\_2017177EN.01003601-E0003</a>

https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/576807/Foodfeedlaw\_July-Sept\_16\_Final.pdf

<sup>&</sup>lt;sup>79</sup> <u>http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1498122697939&uri=CELEX:32013H0711</u>

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.092.01.0009.01.ENG&toc=OJ:L:2017:092:TOC

performed within the framework of Article 4 of Regulation (EC) No 852/2004 (see Section 2.14) apply representative sampling procedures and appropriate laboratory performance criteria. Interestingly, the European Union Reference Laboratory for Dioxins and PCBs has found that analytical results in certain cases are not reliable when appropriate laboratory performance criteria are not applied by laboratories performing the analysis of samples taken by food business operators. Regulation 2017/644 also deletes the use of a decision limit as provided for in Commission Decision 2002/657/EC for the analysis of dioxins and PCBs in food, in favour of an expanded uncertainty using a coverage factor of 2, giving a level confidence of approximately 95 %. The regulation also provides for reporting requirements for physico-chemical methods used for screening in line with the reporting requirements for bioanalytical screening methods and makes other minor amendments.

# 2.3 Non regulated contaminants

There are some contaminants for which legislation is not currently appropriate. Some compounds arise as artefacts of food processing or cooking, examples include:

- Acrylamide
- Glycerol based process contaminants (MCPD and GE)
- Endocrine disruptors
- Nickel

Updates on the above are in previous editions of this review<sup>81</sup> and further information is recorded below as it arises.

#### 2.3.1 Acrylamide

In 2002 it was discovered that acrylamide, a potential carcinogen, can be formed in food by the reaction of the amino acid asparagine with reducing sugars (particularly glucose and fructose) as part of the Maillard Reaction (a complex series of reactions between amino acids and reducing sugars, usually at increased temperatures). Since then, major international efforts have been mounted to investigate the principal sources of dietary exposure, to assess the associated health risks and develop risk management strategies. In February 2017 FSA carried out an awareness campaign (Go for Gold)<sup>82</sup> to help people understand how to minimise exposure to acrylamide when cooking at home.

#### 2.4 Food additives

Annex II to Regulation (EC) No 1333/2008 lays down a European Union list of food additives approved for use in foods and their conditions of use, and Annex I to Regulation (EC) No 1334/2008 lays down a European Union list of flavourings and source materials approved for use in and on foods and their conditions of use. Commission non-official guidance describes the food categories in Part E of Annex II to Regulation 1333/2008.<sup>83</sup>

Regulation (EC) No 1333/2008 is enforced in the UK by the Food Additives, Flavourings, Enzymes and Extraction Solvents (*name of UK country*) Regulations 2013 in each country of the UK.<sup>84-87</sup>

<sup>&</sup>lt;sup>81</sup> https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/576807/Foodfeedlaw\_July-Sept\_16\_Final.pdf

https://www.food.gov.uk/news-updates/news/2017/15890/reduce-acrylamide-consumption

http://ec.europa.eu/food/food/fAEF/additives/guidance\_en.print.htm

http://www.legislation.gov.uk/uksi/2013/2210/contents/made

A database of additives is available on the European Commission website, <sup>88</sup> and entries on specific additives will be retained until captured by the database unless the category is of general interest. Food Additives Legislation Guidance to Compliance (October 2015) is available from FSA. <sup>89</sup>

Regulation (EU) No 231/2012<sup>90</sup> sets specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008. A compendium of food additive specifications is available online.<sup>91</sup>

The 83<sup>rd</sup> report of the Joint FAO/WHO Expert Committee on Food Additives was published in June 2017. It includes evaluations of technical, toxicological and/or dietary exposure data for six contaminants or groups of contaminants (aflatoxins, 4,15-diacetoxyscirpenol, (DAS), fumonisins, glycidyl esters, 3-MCPD esters and 3-MCPD, sterigmatocystin) as well as an evaluation of coexposure of fumonisins with aflatoxins.<sup>92</sup>

#### 2.4.1 Casein and caseinates

The status of food additives in caseinates was clarified by aligning Annex II with the provisions of Directive (EU) 2015/2203<sup>93</sup> on caseins and caseinates intended for human consumption. A food category "edible caseinates" was established and the additives authorised in edible caseinates included with the respective conditions of use by Commission Regulation (EU) 2016/691 of 4 May 2016.<sup>94</sup> Compositional standards for caseinates are given in the Directive, see Section 3.3.1.

#### 2.4.2 Gel forming additives in jelly confectionery

Certain gel forming additives are prohibited in jelly confectionery that conforms with the definition of 'jelly mini-cups' given in Part E of Annex II of Regulation 1333/2008. A summary of the background to this, testing products to assess if they conform to the definition of a 'jelly mini-cup' and technical appeals to the Government Chemist in this area was published in the September edition of the IFST house journal FS&T. 95

#### 2.4.3 Potassium carbonate

Commission Regulation (EU) 2017/1270 of 14 July 2017<sup>96</sup> amended Annex II to Regulation 1333/2008 to allow the use of potassium carbonate (E 501) on peeled, cut and shredded fruit and vegetables at *quantum satis* levels. The salt is permitted only in prepacked refrigerated unprocessed fruit and vegetables ready for consumption and prepacked unprocessed and peeled potatoes. During preparation of fresh cut fruit and vegetables, enzymatic activities may lead to a loss in quality of the products, such as browning and structural losses, and to food waste. In order

http://www.legislation.gov.uk/wsi/2013/2591/contents/made

http://www.legislation.gov.uk/ssi/2013/266/contents/made

http://www.legislation.gov.uk/nisr/2013/220/contents/made

http://ec.europa.eu/food/safety/food\_improvement\_agents/additives/database\_en

https://www.food.gov.uk/sites/default/files/multimedia/pdfs/guidance/food-additives-legislation-guidance-to-compliance.pdf

<sup>90</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?gid=1499108628009&uri=CELEX:02012R0231-20170317

<sup>91</sup> http://www.fao.org/3/a-i6413e.pdf

<sup>92</sup> http://www.who.int/foodsafety/publications/technical-report-series-1002/en/

<sup>93</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1466676596182&uri=CELEX:32015L2203

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2016.120.01.0004.01.ENG&toc=OJ:L:2016:120:TOC

https://www.fstjournal.org/features/31-3/choking-hazards

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.184.01.0001.01.ENG&toc=OJ:L:2017:184:TOC

to avoid browning, ascorbic acid (E 300) can be used. However, ascorbic acid tends to break down cell tissue, leading to softening and discoloration of fruit and vegetables after a few days. The use of potassium carbonate (E 501) allows for a more efficient protection against browning as it functions as a stabilizer and acidity regulator and minimizes the damage to tissue caused by ascorbic acid.

#### 2.4.4 Propellants in colour preparations

Commission Regulation (EU) 2017/874 of 22 May 2017 amended Annex III to Regulation 1333/2008 to permit the use of butane (E 943a), isobutane (E 943b) and propane (E 944) in sprays in order to obtain an appropriate homogenous coverage of colours on foods.<sup>97</sup>

#### 2.4.5 Sulphites

In April 2014 EFSA published a major review of the widely used additives sulphur dioxide and the sulphites group, which are included as a legislated allergen group in the Food Information Regulation 1169/2011 owing to possible intolerance reactions and recorded probable fatalities in consumers sensitive to sulphites in food. EFSA also noted that endogenous sulphites can be generated as a consequence of the body's normal processing of sulphur-containing amino acids and that sulphites may occur as a consequence of fermentation and are naturally present in a number of foods and beverages. EFSA confirmed that although the toxicological database was limited, the current group ADI of 0.7 mg SO<sub>2</sub> equivalent/kg bw per day (derived using a default uncertainty factor of 100) would remain adequate but should be considered temporary whilst the database was improved. The EFSA Panel further concluded that exposure estimates to sulphur dioxide—sulphites were higher than the group ADI for all population groups.<sup>98</sup>

#### 2.4.6 Additives in wine

Wine making is controlled by Commission Regulation (EC) No 606/2009 which lays down authorised oenological practices (Annex I A). The International Organisation of Vine and Wine (OIV) discuss and adopt oenological practices which may be subsequently incorporated in EU law. For examples please see the previous edition of this report.<sup>99</sup>

Commission Regulation (EU) 2017/1399 of 28 July 2017<sup> $^{100}$ </sup> amended Annex II to Regulation 1333/2008 to permit potassium polyaspartate, E456. Potassium polyaspartate acts as a stabiliser against tartrate crystal precipitation in wine (red, rosé and white wine). It enhances the keeping quality and stability of wine and its use does not have an impact on the sensory properties. The proposed use in wine is at a maximum of 300 mg L<sup> $^{-1}$ </sup> with typical levels in the range of 100-200 mg L<sup> $^{-1}$ </sup>.

#### 2.4.7 Additives in additives

Annex III to Regulation (EC) No 1333/2008 lays down a Union list of food additives approved for use in food additives, food enzymes, food flavourings, nutrients and their conditions of use. Commission Regulation (EU) 2017/1271 of 14 July 2017<sup>101</sup> amended Annex III to permit the use of silicon dioxide (E 551) as an anticaking agent in potassium nitrate (E 252) up to 10,000 mg kg<sup>-1</sup>

97 http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.134.01.0018.01.ENG&toc=OJ:L:2017:134:TOC

http://www.efsa.europa.eu/sites/default/files/scientific\_output/files/main\_documents/4438.pdf

https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/576807/Foodfeedlaw\_July-Sept\_16\_Final.pdf

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.199.01.0008.01.ENG&toc=OJ:L:2017:199:TOC http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.184.01.0003.01.ENG&toc=OJ:L:2017:184:TOC

#### 2.4.8 Flavourings

Flavourings and certain food ingredients with flavouring properties are controlled by Regulation (EC) No 1334/2008 of the European Parliament and of the Council of 16 December 2008. The regulation is regularly updated, readers should refer to Eur Lex for the latest version as significant amendments are mentioned here on a quarterly basis but only major updates are retained.

In July 2017 Commission Regulation (EU) 2017/1250 amended Annex I to Regulation 1334/2008 to remove from the EU permitted list the flavouring substance 4,5-epoxydec-2(trans)-enal following an EFSA opinion which raised a safety concern with respect to genotoxicity. <sup>103</sup>

#### 2.5 Extraction solvents

Directive 2009/32/EC applies to extraction solvents used or intended for use in the production of foodstuffs or food ingredients, other than extraction solvents used in the production of food additives, vitamins and other nutritional additives, unless listed in its Annex I.

#### 2.6 Food contact materials

Regulation (EC) No 1935/2004<sup>104</sup> of the European Parliament and of the Council of 27 October 2004 provides the framework law on materials and articles intended to come into contact with food, implemented in England by the Materials and Articles in Contact with Food (England) Regulations 2012 with equivalents in Scotland, Wales and Northern Ireland. The national regulations implement the requirements of EU Directives (which are not directly applicable) relating to ceramic articles (84/500/EC) and regenerated cellulose film (2007/42/EC). They additionally maintain the controls on vinyl chloride polymer/co-polymer in Directive 78/142/EEC that are not covered under the Food Contact Plastics Regulation.<sup>105</sup>

More detailed provisions are as follows:

- Regulation 2023/2006 on Good Manufacturing Practice
- Regulation 450/2009 on 'Active and Intelligent' Materials and Articles
- Regulation 10/2011 (The 'Food Contact Plastics' Regulation)
- Regulation 1895/2005 on the use of certain epoxy derivatives

The above legislation is best accessed via EUR-Lex although useful advice and links are available on the Commission websites, including a link to database on Food Contact Materials. 106, 107

Regulation 10/2009 has been extensively amended by Commission Regulation (EU) 2016/1416<sup>108</sup> and Commission Regulation (EU) 2017/752 of 28 April 2017<sup>109</sup> Relevant EFSA opinions were incorporated and textual errors corrected, the definition 'hot-fill' was clarified, and other technical clarifications made including new specific migration limits. In addition in Annex III Table 3, "Food simulants for tests to demonstrate compliance with the overall migration limit", was

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1445980490072&uri=CELEX:02008R1334-20150729

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.179.01.0003.01.ENG&toc=OJ:L:2017:179:TOC

See EUR-Lex for up to date versions of legislation: <a href="http://eur-lex.europa.eu/homepage.html">http://eur-lex.europa.eu/homepage.html</a>

See the FSA website for general comments and links to national legislation across the UK: <a href="http://www.food.gov.uk/business-industry/manufacturers/contaminants-fcm-quidance/about-the-regulations">http://www.food.gov.uk/business-industry/manufacturers/contaminants-fcm-quidance/about-the-regulations</a>

http://ec.europa.eu/food/safety/chemical\_safety/food\_contact\_materials/legislation/index\_en.htm

http://ec.europa.eu/food/safety/chemical\_safety/food\_contact\_materials/index\_en.htm

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474057348374&uri=CELEX:32016R1416
http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.113.01.0018.01.ENG&toc=OJ:L:2017:113:TOC

updated. In Annex IV, point 8(iii) was replaced by '(iii) the highest food contact surface area to volume ratio for which compliance has been verified in accordance with Article 17 and 18 or equivalent information'.

Commission Regulation 2015/1906<sup>110</sup> has amended Regulation (EC) No 282/2008 on recycled plastic materials and articles intended to come into contact with foods. The amendment clarifies regulatory procedures consequent upon Decision 1999/468/EC having been replaced by Regulation (EU) No 182/2011.

In August 2017 the Materials and Articles in Contact with Food (Amendment) Regulations (Northern Ireland) 2017<sup>111</sup> amended the Materials and Articles in Contact with Food Regulations (Northern Ireland) 2012 to provide for the continued enforcement of Regulation (EU) No. 10/2011 on plastic materials and articles intended to come into contact with food as amended by Commission Regulation (EU) No. 2016/1416. Those amendments include removal of certain offences so as to enable improvement notices to be served to require the same compliance. The failure to comply with an improvement notice becomes an offence under Article 9(2) of the Food Safety (Northern Ireland) Order 1991 (regulation 12 and 14). Examples include, in the 2012 regulations, regulations 7(2) (obligation under Art. 13 of Regulation 450/2009 on supporting documentation), 14(2) (making available certain compositional details to competent authorities), 16(4) (prohibition of use of BFDGE, NOGE<sup>113</sup> and contravention of the specific migration limit for BADGE<sup>114</sup> and certain derivatives) and others. Consequential administrative amendments are also made.

In Wales the equivalent Materials and Articles in Contact with Food (Wales) (Amendment) Regulations 2017, Rheoliadau Deunyddiau ac Eitemau mewn Cysylltiad â Bwyd (Cymru) (Diwygio) 2017 were made. 115

#### 2.6.1 Mineral oil hydrocarbons (MOH)

Mineral oil hydrocarbons (MOH) are derived mainly from crude oil, but also produced synthetically from coal, natural gas and biomass. MOH can be present in food through environmental contamination, lubricants for machinery used during harvesting and food production, processing aids, food additives and food contact materials. Food grade MOH products are treated to minimise the mineral oil aromatic hydrocarbons (MOAH) content. In 2012 the Scientific Panel on Contaminants in the Food Chain (CONTAM Panel) of EFSA concluded (1) that the potential human health impact of groups of substances among the MOH vary widely. MOAH may act as genotoxic carcinogens, while some mineral oil saturated hydrocarbons (MOSH) can accumulate in human tissue and may cause adverse effects in the liver. As some MOAH are considered mutagenic and carcinogenic, it is important to organise monitoring of MOH better to understand the relative presence of MOSH and MOAH in food commodities that are major contributors to dietary exposure. Migration from food contact materials such as paper and board packaging is suspected to contribute significantly to the total exposure, hence monitoring should include prepackaged food, the packaging material and the presence of functional barriers, and equipment used for storage and processing. Certain parameters may increase the migration of MOH from packaging into food, such as storage time and storage conditions. As MOH are easier to detect in

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2015.278.01.0011.01.ENG

http://www.legislation.gov.uk/nisr/2017/157/contents/made

BFDGE, bis(hydroxyphenyl)methane bis(2,3-epoxypropyl)ethers, or Bisphenol-F DiGlycidyl Ether

NOGE, novolac glycidyl ethers

BADGE, 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether or Bisphenol-A DiGlycidyl Ether <a href="http://www.legislation.gov.uk/wsi/2017/832/contents/made">http://www.legislation.gov.uk/wsi/2017/832/contents/made</a>

high quantities, the sampling strategy should take account of such parameters when their migration is highest. Commission Recommendation (EU) 2017/84 of 16 January 2017<sup>116</sup> advised on the monitoring of mineral oil hydrocarbons in food and in materials and articles intended to come into contact with food. Member States should, with the active involvement of food business operators as well as manufacturers, processors and distributors of food contact materials and other interested parties, monitor the presence of MOH in food during 2017 and 2018. The monitoring should cover animal fat, bread and rolls, fine bakery ware, breakfast cereals, confectionery (including chocolate) and cocoa, fish meat, fish products (canned fish), grains for human consumption, ices and desserts, oilseeds, pasta, products derived from cereals, pulses, sausages, tree nuts, vegetable oils, as well as food contact materials used for those products. Sampling should be in accordance with the provisions laid down in Commission Regulation (EC) No 333/2007. The European Union Reference Laboratory (EU-RL) for Food Contact Materials is mandated to develop guidance on methods of sampling and analysis

### 2.7 Marine biotoxins

The overarching law is Regulation (EC) No 853/2004<sup>117</sup> laying down specific hygiene rules for food of animal origin, which *inter alia* defines 'marine biotoxins' as poisonous substances accumulated by bivalve molluscs, in particular as a result of feeding on plankton containing toxins. Limits are prescribed measured in the whole body or any part edible separately):

- (a) for paralytic shellfish poison (PSP), 800 micrograms per kilogram;
- (b) for amnesic shellfish poison (ASP), 20 milligrams of domoic acid per kilogram;
- (c) for okadaic acid, dinophysistoxins and pectenotoxins together, 160 micrograms of okadaic acid equivalents per kilogram;
- (d) for yessotoxins, 3.75 milligrams of yessotoxin equivalent per kilogram; and
- (e) for azaspiracids, 160 micrograms of azaspiracid equivalents per kilogram.

Regulation 853/2004 is given effect in Scotland by the Food Hygiene (Scotland) Regulations 2006<sup>118</sup> last amended in 2016. In England the Food Safety and Hygiene (England) Regulations 2013 apply.<sup>119</sup> Recognised testing methods for marine biotoxins are described in Annex III of Commission Regulation (EC) No 2074/2005 of 5 December 2005.<sup>120</sup> Further information is available from FSA<sup>121</sup> on shellfish monitoring and fish and shellfish<sup>122</sup> and from Food Standards Scotland.<sup>123</sup> EFSA have published a number of opinions on marine biotoxins and further information is also available from the Centre for Environment, Fisheries and Aquaculture Science (Cefas)<sup>124</sup> and the Agri-Food & Biosciences Institute (AFBI).<sup>125</sup>

## 2.8 Pesticides

Guidance on maximum residue levels (MRLs) for pesticides and analytical methods is given on the Commission website. Commission Implementing Regulation (EU) 2017/660 of 6 April 2017 extended previous coordinated multiannual control programme to ensure compliance with MRLs

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.012.01.0095.01.ENG&toc=OJ:L:2017:012:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1494593945343&uri=CELEX:02004R0853-20160401

http://www.legislation.gov.uk/ssi/2006/3/regulation/13/made

http://www.legislation.gov.uk/uksi/2013/2996/contents/made

<sup>120</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1494594527755&uri=CELEX:02005R2074-20160603

https://www.food.gov.uk/enforcement/monitoring/shellfish/

https://www.food.gov.uk/business-industry/fish-shellfish

http://www.foodstandards.gov.scot/food-safety-standards/advice-business-and-industry/shellfish

https://www.cefas.co.uk/

https://www.afbini.gov.uk/articles/marine-biotoxins-shellfish

http://ec.europa.eu/food/plant/pesticides/max\_residue\_levels/guidelines\_en\_

and to assess the consumer exposure to pesticide residues in and on food of plant and animal origin to 2018, 2019 and 2020 with amended provisions. 127

Regulation (EC) No 396/2005 governs MRLs of pesticides in or on food and feed of plant and animal origin; Annexes II, III and V to the regulation are regularly amended as regards MRLs and can be seen on the EU Pesticides Database. 128, 129

Individual records of MRLs and changes thereto are not reproduced here.

Rules for the authorisation of pesticides (plant protection products) in commercial form and for their placing on the market, use and control within the European Union are contained in Regulation (EC) No 1107/2009 of the European Parliament and of the Council. Regulation 1107/2009 is implemented by Commission Implementing Regulation (EU) No 540/2011 of 25 May 2011 which is frequently updated.

Commission Regulation (EU) 2017/1432 of 7 August 2017<sup>132</sup> amended Regulation 1107/2009 on criteria for the approval of low-risk active substances which the latter aims at facilitating placing on the market by setting criteria for their identification and accelerating the approval procedure. However, there are in the Regulation 14 classes of substances, such as carcinogens or skin sensitisers, which cannot be considered low risk. Regulation 2017/1432 adds as low-risk substances semio-chemicals, which are substances emitted by plants, animals and other organisms which are used for intra- and inter-species communication, have a target-specific and non-toxic mode of action and are naturally occurring. They are generally effective at very low rates, often comparable to levels that occur naturally. Certain micro-organisms may also be considered to be of low-risk unless at strain level multiple resistance to antimicrobials used in human or veterinary medicine has been demonstrated. Certain baculoviruses may also be considered low risk unless at strain level adverse effects on non-target insects has been demonstrated.

#### 2.8.1 Biocidal Products

The Biocidal Product Regulation (Regulation (EU) 528/2012) concerns the placing on the market and use of biocidal products, which are used to protect humans, animals, materials or articles against harmful organisms, like pests or bacteria, by the action of the active substances contained in the biocidal product. The regulation is frequently updated. Further information is available on the website of the European Chemicals Agency. 133

Commission Delegated Regulation (EU) 2017/698 of 3 February 2017 amended Delegated Regulation (EU) No 1062/2014 on the work programme for the systematic examination of all existing active substances contained in biocidal products referred to in Regulation (EU) No 528/2012. 134

<sup>127</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L \_.2017.094.01.0012.01.ENG&toc=OJ:L:2017:094:TOC

http://ec.europa.eu/food/plant/pesticides/eu-pesticides-database/public/?event=homepage&language=EN

http://ec.europa.eu/food/plant/pesticides/max\_residue\_levels/index\_en.htm

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474202948544&uri=CELEX:02009R1107-20140630 (but see EUR-Lex for latest version)

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474199567547&uri=CELEX:32011R0540 (but see EUR-Lex fro latest version)

<sup>32</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L \_2017.205.01.0059.01.ENG&toc=OJ:L:2017:205:TOC

https://echa.europa.eu/regulations/biocidal-products-regulation/legislation

<sup>&</sup>lt;sup>34</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.103.01.0001.01.ENG&toc=OJ:L:2017:103:TOC

# 2.9 Products of animal origin

Regulations (EC) 853/2004 and 854/2004 control the import of products of animal origin. These are to be imported only from a third country or a part of third country that appears on a designated list.

## 2.10 Radioactivity

Commission Implementing Regulation (EU) 2016/6 of 5 January 2016 relaxed the special conditions governing the import of feed and food originating in or consigned from Japan following the accident at the Fukushima nuclear power station, and repealed Implementing Regulation (EU) No 322/2014.

Council Regulation (Euratom) 2016/52<sup>135</sup> sets out maximum permitted levels of radioactive contamination of food and feed following a nuclear accident or any other case of radiological emergency, and repeals Regulation (Euratom) No 3954/87 and Commission Regulations (Euratom) No 944/89 and (Euratom) No 770/90. See also Welsh private water supply regulations covering monitoring of radioactivity in water (see Section 2.15).

## 2.11 Transmissible spongiform encephalopathies

Transmissible Spongiform Encephalopathies, TSE, are a family of diseases occurring in man and animals and are characterised by a degeneration of brain tissue to a sponge-like appearance leading to death. The family includes diseases such as Creutzfeldt-Jakob Disease, CJD, variant Creutzfeldt-Jakob Disease, vCJD and Kuru in humans, Bovine Spongiform Encephalopathy, BSE, in cattle, Scrapie in small ruminants (sheep and goats), Chronic Wasting Disease in cervids (e.g. deer) and Transmissible Mink Encephalopathy. The commonly accepted cause of the TSE diseases is a transmissible agent called a prion (PrPres), which is an abnormal form of a protein. The framework legislation is Regulation (EC) No 999/2001.

Commission Regulation (EU) 2016/1396 of 18 August 2016 amended certain Annexes to Regulation (No 999/2001. For example for the purposes of official BSE risk status recognition, "atypical BSE" – a condition believed to occur spontaneously in all cattle populations at a very low rate – was excluded. Legislative references were updated and technical labelling requirements around removal of vertebral column from carcasses were amended. Further technical amendments were made for which the reader is advised to consult Regulation 2016/1396. <sup>137</sup>

Commission Implementing Decision (EU) 2016/2002 of 8 November 2016 amended Annex E to Council Directive 91/68/EEC, Annex III to Commission Decision 2010/470/EU and Annex II to Commission Decision 2010/472/EU concerning trade in and imports into the EU of ovine and caprine animals, and semen of animals of the ovine and caprine species in relation to the rules for the prevention, control and eradication of certain transmissible spongiform encephalopathies. 138

Commission Regulation (EU) 2017/110 of 23 January 2017 amended Annexes IV and X to Regulation (EC) No 999/2001 that *inter alia*, prohibit the feeding to ruminants of protein derived from animals, except feeding to unweaned ruminants of milk replacers containing fishmeal which

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474057348374&uri=CELEX:32016R1396 http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2016.308.01.0029.01.ENG&toc=OJ:L:2016:308:TOC

<sup>135</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L \_.2016.013.01.0002.01.ENG&toc=OJ:L:2016:013:TOC

http://ec.europa.eu/food/safety/biosafety/food\_borne\_diseases/tse\_bse/index\_en.htm

are produced, placed on the market and used in accordance with the specific conditions. Regulation 2017/110 allows the possibility of using starfish or farmed aquatic invertebrates, other than molluscs and crustaceans, for the production of fishmeal for unweaned ruminants. 139

Commission Regulation (EU) 2017/893 of 24 May 2017 amended Annexes I and IV to Regulation (EC) No 999/2001 of the European Parliament and of the Council and Annexes X, XIV and XV to Commission Regulation (EU) No 142/2011 as regards the provisions on processed animal protein. Processed animal protein derived from insects and compound feed containing such processed animal protein is authorised for feeding aquaculture animals and other amendments are made.

Commission Regulation (EU) 2017/894 of 24 May 2017 amended Annexes III and VII to Regulation (EC) No 999/2001 as regards the genotyping of ovine animals. 141

Commission Implementing Decision (EU) 2017/1396 of 26 July 2017 amended the Annex to Decision 2007/453/EC as regards country BSE status. Northern Ireland, Scotland and Poland were recognised as having a negligible BSE risk. England and Wales remain currently listed as countries with a controlled BSE risk. 142

#### 2.12 **Toxicology**

EFSA have established 'OpenFoodTox', a new database that provides access to information from over 1,650 EFSA scientific outputs about the toxicity of chemicals found in the food and feed chain. An editorial published in the EFSA Journal in January 2017 describes how to use the database.143

### 2.13 Veterinary residues

Commission Regulation (EU) No 37/2010 of 22 December 2009 deals with MRLs of veterinary medicinal products in foodstuffs of animal origin. Domestic effect is given by the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015<sup>144</sup> and, in Northern Ireland, by the Animal and Animal Products (Examination for Residues and Maximum Residue Limits) (Northern Ireland) 2016 (SR 54). 145

Regulation (EU) No 37/2010 is regularly amended as regards MRLs. Further information is available from the European Medicines Agency (EMA)<sup>146</sup> and on the European Commission website. 147 The latest consolidated version of Regulation 37/2010 (available on EUR-Lex) should be consulted for MRLs however there is a time-lag between amendments being made and their incorporation into the consolidated version. It is therefore best to search EUR-Lex from the date of the last amendment to ensure full coverage.

Toxicological evaluation of veterinary residues is carried out by the Joint FAO/WHO Expert Committee on Food Additives, JECFA, an international expert scientific committee administered

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.018.01.0042.01.ENG&toc=OJ:L:2017:018:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.138.01.0092.01.ENG&toc=OJ:L:2017:138:TOC

<sup>.2017.138.01.0117.01.</sup>ENG&toc=OJ:L:2017:138:TOC .2017.197.01.0009.01.ENG&toc=OJ:L:2017:197:TOC http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L

<sup>143</sup> http://www.efsa.europa.eu/en/press/news/170118-0

http://www.legislation.gov.uk/uksi/2015/787/pdfs/uksi\_20150787\_en.pdf

http://www.legislation.gov.uk/nisr/2016/54/pdfs/nisr\_20160054\_en.pdf

http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/document\_listing\_000165.jsp

jointly by the Food and Agriculture Organization of the United Nations, FAO, and the World Health Organization, WHO.<sup>148</sup>

Commission Implementing Decision (EU) 2016/1774 of 4 October 2016 amended Decision 2010/381/EU which requires at least 10 % of consignments of aquaculture products from India for human consumption to be tested for the presence of pharmacologically active substances, in particular, chloramphenicol, tetracycline, oxytetracycline and chlortetracycline and of metabolites of nitrofurans. Decision (EU) 2016/1774 strengthened surveillance by requiring 50% of consignments to be tested but relieved Member States of the obligation for guarterly reporting in light of the implementation of the integrated computerised veterinary system ('Traces') in accordance with Article 3 of Commission Decision 2004/292/EC. 149

Commission Implementing Regulation (EU) 2017/12 of 6 January 2017 established a standard format for applications and requests to the European Medicines Agency (EMA) for the establishment of maximum residue limits in accordance with Regulation (EC) No 470/2009 of the European Parliament and of the Council. The format includes the list of information that should accompany such applications, which includes a proposed method of analysis (including limit of quantification and reference, where relevant). 150

Official sampling strategy, sampling levels and frequency are set out in Annexes III and IV to Council Directive 96/23/EC of 29 April 1996 on measures to monitor certain substances and residues thereof in live animals and animal products, (latest consolidated version 1 July 2013<sup>151</sup>). Commission Decision 98/179/EC of 23 February 1998 (latest consolidated version 1 July 2013<sup>152</sup>) lays down detailed rules on official sampling for the monitoring of certain substances and residues thereof in live animals and animal products and includes provision, unless technically impossible or not required by national legislation, to divide each sample into at least two equivalent sub-samples each allowing the complete analytical procedure. The subdivision can take place at the sampling location or in the laboratory.

Commission Regulation (EU) 2017/880 of 23 May 2017 set out rules on the use of a maximum residue limit established for a pharmacologically active substance in a particular foodstuff, for another foodstuff derived from the same species and a maximum residue limit established for a pharmacologically active substance in one or more species for application to other species, in accordance with Regulation (EC) No 470/2009 of the European Parliament and of the Council. 153

A summary of why and how veterinary residues are controlled in food and current problems arising from technical appeals to the Government Chemist in this area was published in the June edition of the IFST house journal FS&T. 154

### 2.14 Food Hygiene

Good food hygiene means controlling harmful micro-organisms which can cause serious illness. The four essential measures are (a) to control cross-contamination, (b) effective cleaning (c) thorough cooking and (d) immediate chilling after cooking. These are summarised as 'cook, chill,

http://www.fao.org/food/food-safety-quality/scientific-advice/jecfa/en/

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2016.271.01.0007.01.ENG&toc=OJ:L:2016:271:TOC http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.004.01.0001.01.ENG&toc=OJ:L:2017:004:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1498122962393&uri=CELEX:01996L0023-20130701 http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1498134918739&uri=CELEX:01998D0179-20130701

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.135.01.0001.01.ENG&toc=OJ:L:2017:135:TOC

Walker M. and Gray L. (2017), Veterinary residues in food, FS&T, 31, 23-27 http://fstjournal.org/features/31-2/veterinary-

clean, separate'. 155 HACCP (Hazard Analysis and Critical Control Point) is a key system that helps food business operators address food hygiene. <sup>156</sup> Food Hygiene is controlled legislatively by Food Safety and Hygiene Regulations, currently the Food Safety and Hygiene (England) Regulations 2013<sup>157</sup> with equivalents in Wales, <sup>158</sup> Scotland <sup>159</sup> and Northern Ireland. <sup>160</sup> These regulations identify the "EU Hygiene Regulations" as Regulation 852/2004, Regulation 853/2004, Regulation 854/2004, Regulation 2073/2005 and Regulation 2075/2005. A schedule to the UK regulations lists the means of the following hygiene measures: Decision 2006/766, Directive 2004/41, Regulation 178/2002, Regulation 852/2004, Regulation 853/2004, Regulation 854/2004, "Regulation 882/2004", "Regulation 1688/2005", "Regulation 2073/2005", 2074/2005", Regulation 2075/2005, Regulation 1020/2008, Regulation 1021/2008, Regulation 596/2009, Regulation 669/2009, Regulation 1169/2011, Regulation 28/2012 and Regulation 1079/2013.

EU Regulation No. 2073/2005 on microbiological criteria for foods (as amended by EU Regulation No. 1441/2007) complements the food hygiene legislation and applies to all food businesses involved in the production and handling of food. 161 Guidance on microbiological criteria is available from Public Health England 162 and from IFST on aspects such as Shigatoxinproducing E. coli, fresh produce safety, foodborne viral infections, campylobacter, cyclospora, and cryptosporidium. 163

Commission Regulation (EU) 2017/1495 of 23 August 2017<sup>164</sup> amended Regulation (EC) No 2073/2005 as regards Campylobacter in broiler carcasses.

Regulation (EC) No 852/2004 of 29 April 2004<sup>165</sup> on the hygiene of foodstuffs imposes responsibilities and duties on food business operators including HACCP, temperature control, maintenance of a cold chain and sampling and analysis.

Food Hygiene (Amendment) Regulations made in England, Wales, Scotland and Northern Ireland came into force in October 2016 and made various amendments to provide for the execution and enforcement of Commission Implementing Regulation (EU) 2015/1375 laying down specific rules on official controls for Trichinella in meat. 166-169

In March 2017 Health Protection Scotland published an Incident Management Team report on a national outbreak of Escherichia coli O157 Phage Type 21/28 in Scotland in July-September 2016. 170 The incident attracted considerable publicity.

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https://www.food.gov.uk/business-industry/food-hygiene
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https://www.food.gov.uk/business-industry/food-hygiene/haccp

http://www.legislation.gov.uk/uksi/2013/2996/note/made

Food Hygiene (Wales) Regulations 2006 with many subsequent amendments

Food Hygiene (Scotland) Regulations 2006 with many subsequent amendments

The Food Hygiene Regulations (Northern Ireland) 2006 with many subsequent amendments

https://www.food.gov.uk/business-industry/guidancenotes/hygguid/microbiolreg

PHE, 2009, Ready-to-eat foods: microbiological safety assessment guidelines https://www.gov.uk/government/publications/ready-to-eat-foods-microbiological-safety-assessment-guidelines

http://www.ifst.org/knowledge-centre/information-statements

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.218.01.0001.01.ENG&toc=OJ:L:2017:218:TOC

Latest consolidated version 20.04.2009, http://eur-lex.europa.eu/legalcontent/EN/TXT/?qid=1498136347793&uri=CELEX:02004R0852-20090420

The Food Safety and Hygiene (England) (Amendment) Regulations 2016

http://legislation.data.gov.uk/uksi/2016/868/made/data.pdf
The Food Hygiene (Wales) (Amendment) Regulations 2016, http://www.legislation.gov.uk/cy/wsi/2016/845/made

The Food Hygiene (Scotland) Amendment Regulations 2016

http://www.legislation.gov.uk/ssi/2016/260/pdfs/ssi\_20160260\_en.pdf

http://www.legislation.gov.uk/nisr/2016/345/contents/made

The Commission has produced a guidance document addressing microbiological risks in fresh fruits and vegetables at primary production through good hygiene (2017/C 163/01).<sup>171</sup>

Commission Decision (EU) 2017/1583 of 1 September 2017 specified, pursuant to Directive 2006/7/EC of the European Parliament and of the Council, EN ISO 17994:2014 as the standard on the equivalence of microbiological methods (notified under document C(2017) 5843). This is in relation to Directive 2006/7/EC on the management of bathing water quality. EN ISO 17994:2014 replaces an outdated standard and introduces technical updates (e.g. terminology, clearer specifications, and addition of a new Annex on technical calculations). 172

#### 2.14.1 Enterohemorrhagic Escherichia coli - seeds and sprouted seeds

The Enterohemorrhagic Escherichia coli (EHEC) crisis of 2011 focused mainly in Germany with hemolytic-uremic syndrome (HUS) and bloody diarrhoea infecting almost 4,000 people and resulting in 53 deaths. <sup>173</sup> Following EFSA's opinion <sup>174</sup> on the risk posed by Shiga toxin-producing Escherichia coli (STEC) and other pathogenic bacteria in seeds and sprouted seeds new EU legislation was brought in to supplement general food safety requirements in Regulation 178/2002 and hygienic production covered by Regulation 852/2004. These were Commission Implementing Regulation (EU) No 208/2013 on traceability requirements for sprouts and seeds intended for the production of sprouts, Commission Regulation (EU) No 209/2013 (amending Regulation (EC) No 2073/2005) on microbiological criterion for sprouts, Commission Regulation (EU) No 210/2013 on the approval of establishments producing sprouts and Commission Regulation (EU) No 211/2013 (amended by Commission Regulation (EU) No 704/2014) on certification requirements for imports of sprouts and seeds for sprouting into the EU. The requirements of the above regulations and comprehensive instructions on hygienic practices for the safe production of sprouts and seeds for sprouting are included in a guideline produced by the European Sprouted Seeds Association and published by the Commission in the Official Journal in July 2017 under the reference 2017/C 220/03. 175

### 2.14.2 Food hygiene rating schemes

Food Hygiene Rating Schemes help consumers choose where to eat out or shop for food by giving them information about the hygiene standards in restaurants, takeaways and food shops.<sup>176</sup>

In England, Northern Ireland and Wales the FSA operates the Food Hygiene Rating Scheme while FSS operates the Food Hygiene Information Scheme in Scotland, all hinging on local authority hygiene inspections. The schemes in Wales and Northern Ireland have gained statutory force with the Food Hygiene Rating (Promotion of Food Hygiene Rating) (Wales) Regulations 2016, No. 429 (W. 138)<sup>177</sup> which came into force on 28 November 2016 and The Food Hygiene Rating Act (Northern Ireland) 2016.<sup>178</sup> In Wales the regulation applies to establishments which supply takeaway food and requires a conspicuous notice in Welsh and English to indicate the availability of the business food hygiene rating. Receipts from fixed penalties can only be used for

<sup>171</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C \_.2017.163.01.0001.01.ENG&toc=OJ:C:2017:163:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1512389494729&uri=CELEX:32017D1583

http://www.bfr.bund.de/en/ehec\_outbreak\_2011-186689.html

http://www.efsa.europa.eu/en/efsajournal/pub/2424

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C\_.2017.220.01.0029.01.ENG&toc=OJ:C:2017:220:TOC

https://www.food.gov.uk/business-industry/hygieneratings

http://www.legislation.gov.uk/wsi/2016/429/pdfs/wsi\_20160429\_mi.pdf

Food Hygiene Rating Act (Northern Ireland) 2016, Ch 3 http://origin-www.legislation.gov.uk/nia/2016/3/enacted

the purposes of the Public Health (Wales) Act 2017<sup>179</sup> and regulations made under it. The Food Hygiene Rating Regulations (Northern Ireland) 2016 no. 313<sup>180</sup> and the Food Hygiene Rating (Transitional Provisions) Order (Northern Ireland) 2016 no. 314<sup>181</sup> give salient details including exemptions, the form of display of the rating and a fixed penalty notice for failure to display. The Food Hygiene Rating (2016 Act) (Commencement) Order (Northern Ireland) 2016 no. 328 appointed 7 October 2016 for the coming into operation of the Act.<sup>182</sup> The hygiene rating is displayed on the rating sticker given by the local authority following inspection; in England Wales and Northern Ireland the rating ranges from '5' which means the food hygiene standards are very good, down to '0' where urgent improvement is necessary. In England FSA is exploring how a viable statutory scheme could be delivered in the future in line with the FSA's 'Regulating our Future' programme and in the meantime the current voluntary scheme in England is being aligned with the statutory schemes in Wales and Northern Ireland as far as possible without legislative requirements.

In December 2016 the Food Hygiene Rating (Fee and Fixed Penalty Amount) Order (Northern Ireland) 2016 was made<sup>183</sup> coming into force when made and establishing a fee for re-rating an establishment of £150.00 and a fixed penalty of £200.00 if, without reasonable excuse, no valid (or an invalid) food hygiene rating is displayed (or, where appropriate, made available online).

# 2.15 Water for human consumption

Legislation on water for human consumption is noted here, whether or not regarded as "food".

The primary EU law on supplied water is Council Directive 98/83/EC of 3 November 1998 on the quality of water intended for human consumption, alongside Directive 2009/54/EC on the exploitation and marketing of natural mineral waters <sup>184</sup> (recast) and Directive 2003/40/EC establishing the list, concentration limits and labelling requirements for the constituents of natural mineral waters and the conditions for using ozone-enriched air for the treatment of natural mineral waters and spring waters. <sup>186</sup>

Domestic implementation of the latter two is by:

- The Natural Mineral Water, Spring Water and Bottled Drinking Water (England) Regulations 2007 (SI 2785),
- The Natural Mineral Water, Spring Water and Bottled Drinking Water (Scotland) (No. 2) Regulations 2007 (SSI 483),
- The Natural Mineral Water, Spring Water and Bottled Drinking Water (Wales) Regulations 2015 No. 1867 (W. 274) (which revoked and replaced the Natural Mineral Water, Spring Water and Bottled Drinking Water (Wales) Regulations 2007),
- The Natural Mineral Water, Spring Water and Bottled Drinking Water Regulations (Northern Ireland) 2015 (SR 2015 No. 365) which revoked and replaced the Natural Mineral Water, Spring Water and Bottled Drinking Water Regulations (Northern Ireland) 2007.

http://www.legislation.gov.uk/anaw/2017/2/contents/enacted

http://www.legislation.gov.uk/nisr/2016/313/made

http://www.legislation.gov.uk/nisr/2016/314/made

http://www.legislation.gov.uk/nisr/2016/328/made/data.pdf

http://www.legislation.gov.uk/nisr/2016/425/pdfs/nisr\_20160425\_en.pdf

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1453734625466&uri=CELEX:32009L0054

Which repeals and replaces Directive 80/777/EEC.

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1453734764128&uri=CELEX:32003L0040

The Natural Mineral Water, Spring Water and Bottled Drinking Water (Scotland) Amendment Regulations 2015<sup>187, 188</sup> amended the Natural Mineral Water, Spring Water and Bottled Drinking Water (Scotland) (No. 2) Regulations 2007 ("the 2007 Regulations") by implementing, in relation to spring water and drinking water in a bottle, Council Directive 2013/51/Euratom laying down the requirements for the protection of the health of the general public with regard to radioactive substances in water intended for human consumption (OJ L 296, 7.11.13, p.12). Regulation 3 makes consequential amendments to the interpretation provisions in regulation 2 of the 2007 Regulations. Regulation 4 amends regulation 16 of the 2007 Regulations to specify the monitoring and sampling requirements required by Food Authorities. Similar legislation has been enacted in Wales by the Natural Mineral Water, Spring Water and Bottled Drinking Water (Wales) Regulations 2015<sup>189</sup> (SI 1867, W274) and in Northern Ireland with the Natural Mineral Water, Spring Water and Bottled Drinking Water Regulations (Northern Ireland) 2015<sup>190</sup> (SR 365).

The Natural Mineral Water, Spring Water and Bottled Drinking Water (Wales) Regulations 2015 (correction slip) of 25 May 2017 made correction to the Welsh language version of the regulations.<sup>191</sup>

The Natural Mineral Water, Spring Water and Bottled Drinking Water (Scotland) Amendment Regulations 2017, made on 6 September 2017 and coming into force on 27 October 2017, again amended the 2007 Regulations as a result of amendments to their European measures. Commission Directive (EU) 2015/1787 amended Annexes II and III to Council Directive 98/83/EC as regards the quality of water intended for human consumption. These Regulations transpose the provisions of the Directive only in respect of bottled drinking water which is marketed as spring water or bottled drinking water. The remaining provisions of the Directive are implemented by the Public Water Supplies (Scotland) Amendment Regulations 2017 and the Water Intended for Human Consumption (Private Supplies) (Scotland) Regulations 2017. The Regulations remove the obligations on food authorities to check monitor and to audit monitor spring water and bottled drinking water in regulation 16 and schedules 9 to 11 of the 2007 Regulations. They thus clarify enforcement provisions, in particular to remove obligations on food authorities to monitor substances such as ammonia and oxidisability in spring water and bottled water that relate more properly to non-bottled water supplies. These regulations have now been amended many times and appear to be a prime candidate for consolidation.

The Natural Mineral Water, Spring Water and Bottled Drinking Water (Wales) (Amendment) Regulations 2017,<sup>193</sup> made 17 September 2017, and coming into force on 27 October 2017, amended the Natural Mineral Water, Spring Water and Bottled Drinking Water (Wales) Regulations 2015.

They implement the amended monitoring requirements for spring water and bottled drinking water mentioned above in the Scottish 2017 amending Regulations (Welsh regulations 8 and 14). They also allow natural mineral water and spring water that has been subjected to fluoride removal treatment or ozone-enriched air treatment in a non-EEA State to be sold in Wales if the treatments are suitably authorised (regulations 3, 9 and 10). They clarify that natural mineral water and spring water extracted otherwise than in Wales may only be sold in Wales if it complies with the requirements as described in the 2015 Regulations in relation to exploitation (in the case

31

http://www.legislation.gov.uk/ssi/2015/363/pdfs/ssi\_20150363\_en.pdf

http://www.legislation.gov.uk/ssi/2015/363/pdfs/ssics\_20150363\_en.pdf correction slip

http://www.legislation.gov.uk/wsi/2015/1867/pdfs/wsi\_20151867\_mi.pdf

http://www.legislation.gov.uk/nisr/2015/365/pdfs/nisr\_20150365\_en.pdf

http://www.legislation.gov.uk/wsi/2015/1867/pdfs/wsics\_20151867\_mi.pdf

http://www.legislation.gov.uk/ssi/2017/287/contents/made

http://www.legislation.gov.uk/wsi/2017/935/contents/made

of natural mineral water), treatments and additions, and bottling and labelling requirements (regulations 4 and 7). The rules on treatments and additions do not prevent spring water from being used in the manufacture of soft drinks (regulation 5). The Regulations prohibit the advertising of spring water in a way that is liable to cause the water to be confused with a natural mineral water, and prohibit the use of "mineral water", "dŵr mwynol", or its equivalent in any other language, in the advertising of spring water (regulation 6). The exemption period (5 years) from monitoring for certain radiological substances is clarified (regulation 15). Lastly, several errors in previous regulations are corrected.

Commission Directive 2015/1787<sup>194</sup> amended Annexes II and III to Council Directive 98/83/EC on the quality of water intended for human consumption. The tests to be carried out to determine quality and the frequency are described, as is the requirement for laboratories using methods accredited to ISO/IEC 17025 to carry these out.

The Private Water Supplies (Wales) (Amendment) Regulations 2016 No. 411 (W. 129)<sup>195</sup> came into force on 14 April 2016 and amend the Private Water Supplies (Wales) Regulations 2010 to implement Council Directive 2013/51/Euratom on the protection of the health of the general public with regard to radioactive substances in water intended for human consumption from private water supplies. Regulation 3 of these Regulations inserts new regulation 10A (monitoring of radioactive substances: general) into the 2010 Regulations to make provision for new requirements in relation to monitoring for radon, tritium and indicative dose ("the radioactive substances parameters"). Regulation 3 also inserts new regulation 10B (monitoring of radioactive substances: supplies to a single dwelling not used for a commercial or public activity) into the 2010 Regulations. Further monitoring requirements are included in new Schedule 2A. Regulation 5 inserts a new Part (Part 3 - radioactive substances parameters) into Schedule 1 to the 2010 Regulations. The new Part 3 includes Table D which sets parametric values for the radioactive substances parameters. Regulations 2, 4 and 6 of these Regulations make consequential amendments in light of regulation 6. Regulation 8 of these Regulations inserts a new Part (Part 3 - monitoring for indicative dose and analytical performance characteristics) into Schedule 3 to the 2010 Regulations. The new Part 3 makes provision for additional sampling and analysis requirements in relation to the radioactive substances parameters listed in the new Table D in Part 3 of Schedule 1.

The Water Supply (Water Quality) Regulations 2016, 614, 196 enabling power: Water Industry Act 1991, and European Communities Act 1972 came into force on 27 June 2016. It affects:

- SI 2007/3544
- SI 2016/303 amended and SI 2002/2469
- SI 2005/2035
- SI 2007/3544
- SI 2013/235, SI 2013/1387 partially revoked and SI 2000/3184
- SI 2001/2885
- SI 2007/2734
- 2010/991 revoked.

The territorial extent is England and Wales. These Regulations supplement Chapter III of the Water Industry Act 1991 (c.56) (water supply). They also transpose requirements of Council Directive 98/83/EC on the quality of water intended for human consumption (OJ No L 330,

http://www.legislation.gov.uk/uksi/2016/614/pdfs/uksi\_20160614\_en.pdf

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L \_.2015.260.01.0006.01.ENG

http://www.assembly.wales/laid%20documents/sub-ld10651/sub-ld10651-e.pdf

5.12.1998, p 32) and Council Directive 2013/51/Euratom laying down requirements for the protection of the health of the general public with regard to radioactive substances in water intended for human consumption (OJ No L 296, 7.11.2013, p 12). They are primarily concerned with the quality of water supplied in England by water undertakers and licensed water suppliers for domestic or food production purposes, and with arrangements for the publication of information about water quality. They revoke and replace the Water Supply (Water Quality) Regulations 2000 (SI 2000/3184). The regulations include detailed limits and analytical performance characteristics for a wide range of substances.

Parallel regulations, the Private Water Supplies (England) Regulations 2016, SI 618, for private supplies were made, coming into force 27 June 2016. They revoke and replace the Private Water Supplies Regulations 2009 (SI 2009/3101).

# 2.16 Psychoactive substances

The Psychoactive Substances Act 2016 received Royal Assent on 28 January 2016. The act applies across the UK and came into force on 26 May 2016. The act:

- Makes it an offence to produce, supply, offer to supply, possess with intent to supply, possess on custodial premises, import or export psychoactive substances; that is, any substance intended for human consumption that is capable of producing a psychoactive effect. The maximum sentence will be seven years' imprisonment;
- Excludes legitimate substances, such as food, alcohol, tobacco, nicotine, caffeine and medical products from the scope of the offence, as well as controlled drugs, which continue to be regulated by the Misuse of Drugs Act 1971;
- Exempts healthcare activities and approved scientific research from the offences
  under the act on the basis that persons engaged in such activities have a legitimate
  need to use psychoactive substances in their work;
- Includes provision for civil sanctions prohibition notices, premises notices, prohibition orders and premises orders (breach of the two orders will be a criminal offence) – to enable the police and local authorities to adopt a graded response to the supply of psychoactive substances in appropriate cases;
- Provides powers to stop and search persons, vehicles and vessels, enter and search premises in accordance with a warrant, and to seize and destroy psychoactive substances.

Further information including explanatory notes is available <sup>199</sup> as well as Home Office guidance for local authorities on taking action against "head shops" selling psychoactive substances, <sup>200</sup> and Home Office guidance for retailers. <sup>201</sup> Guidance is available from the Crown Prosecution Service on psychoactive substances in general and on assessing whether or not a substance is psychoactive. It is suggested that the suspected substance must be submitted to a Forensic Service Provider for analysis and identification. Separately, an expert witness should be asked to give an opinion as to whether the identified substance was capable of having a psychoactive effect based on analysis of the identified substance in a laboratory. That opinion will be based on

http://www.legislation.gov.uk/uksi/2016/618/contents/made

http://www.legislation.gov.uk/ukpga/2016/2/contents/enacted

https://www.gov.uk/government/collections/psychoactive-substances-bill-2015

https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/410961/Guidance\_for\_local\_authorities\_on\_ta\_king\_action\_against\_10.03\_15.pdf

https://www.gov.uk/government/publications/psychoactive-substances-act-guidance-for-retailers/psychoactive-substances-act-2016-guidance-for-retailers

a chemical reference standard produced as a result of that substance having been tested previously. Further detail about psychoactivity testing is set out in the Home Office's Forensic Strategy<sup>202</sup> including on in-vitro receptor (e.g. opioid receptor) testing.

Certain enabling powers with UK applicability have also been made: the Psychoactive Substances Act 2016 (Consequential Amendments) Regulations 2016, 203 the Psychoactive Substances Act 2016 (Commencement) Regulations 2016<sup>204</sup> and the Magistrates' Courts (Psychoactive Substances Act 2016) (Transfer of Proceedings) Rules 2016.<sup>205</sup>

The Psychoactive Substances Act 2016 (correction slip) noted Schedule 5, paragraph 8(2): "1A" should read "1ZA". 206

Regulation (EU) No 1307/2013<sup>207</sup> establishing rules for direct payments to farmers under support schemes within the framework of the common agricultural policy (Article 32(6)) provides that in order to prevent support payments being granted for illegal crops, areas used for the production of hemp may only be eligible if the varieties used have a tetrahydrocannabinol, THC, content in year on year testing not exceeding 0.2 %. See for example testing of the hemp variety 'Finola' in the UK.208

Commission Delegated Regulation (EU) 2017/1155 of 15 February 2017, published in June 2017 amended Delegated Regulation (EU) No 639/2014 as regards the control measures relating to the cultivation of hemp with regard to farm support payments (and other farm support measures not relevant to food or feed legislation).<sup>209</sup>

Commission Recommendation (EU) 2016/2115<sup>210</sup> of 1 December 2016 has recommended monitoring for the presence of  $\Delta^9$ -tetrahydrocannabinol, its precursors and other cannabinoids in food of animal origin where there is evidence of animals being fed with feed containing hemp or hemp derived feed materials.211

Commission Implementing Regulation (EU) 2017/1172 of 30 June 2017<sup>212</sup> amended Implementing Regulation (EU) No 809/2014 as regards the control measures relating to the cultivation of hemp to allow submission later in the year of official seed labels.

Council Implementing Decision (EU) 2017/1774 of 25 September 2017 imposed control measures as a new psychoactive substance on acryloylfentanyl, (N-(1-phenethylpiperidin-4-yl)-Nphenylacrylamide). Acryloylfentanyl is a synthetic opioid structurally similar to fentanyl, a controlled substance widely used in medicine as an adjunct to general anaesthesia during surgery and for pain management. The available data suggest that acryloylfentanyl is a potent and long-lasting antinociceptive agent (reducing sensitivity to painful stimuli). Three Member States have collectively reported 47 deaths associated with acryloylfentanyl. In at least 40 deaths, acryloylfentanyl was the cause of death or is likely to have been a contributing cause of death. In addition, more than 20 acute intoxications suspected to be due to acryloylfentanyl have

<sup>202</sup> https://www.gov.uk/government/publications/circular-0042016-psychoactive-substances-act-2016

http://www.legislation.gov.uk/uksi/2016/554/regulation/2/made

http://www.legislation.gov.uk/uksi/2016/553/contents/made

http://www.legislation.gov.uk/uksi/2016/546/made

http://www.legislation.gov.uk/ukpga/2016/2/pdfs/ukpgacs\_20160002\_en.pdf

<sup>207</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1499100367442&uri=CELEX:02013R1307-20150603

https://www.finola.fi/seed.html

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.167.01.0001.01.ENG&toc=OJ:L:2017:167:TOC http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L \_.2016.327.01.0103.01.ENG&toc=OJ:L:2016:327:TOC

https://www.efsa.europa.eu/en/efsajournal/pub/4141

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.170.01.0087.01.ENG&toc=OJ:L:2017:170:TOC

been reported. The United Kingdom is not bound by Decision 2005/387/JHA under which the above Decision is made.<sup>213</sup>

## 2.17 Herbal products and medicines

Herbal medicine has been practised in many countries for centuries with particularly strong and established traditions in some Asian countries, notably in China and India but also in Europe including the UK. In the UK, use of herbal medicines is common and it is estimated that up to 20% of the population use herbal products at some time in their lives. Public Analysts, and hence the Government Chemist, may be called upon to examine herbal products, including herbal medicines. EU legislation on pharmaceutical products for human use also applies in general to traditional herbal medicines. However, in order to overcome difficulties encountered by Member States in applying pharmaceutical legislation to traditional herbal medicinal products in a uniform manner, a simplified registration procedure was introduced in 2004, Directive 2004/24/EC. A list of herbal substances, preparations and combinations for use in traditional herbal medicinal products has been established by Commission Decision 2008/911/EC of 21 November 2008. This list is periodically updated; see for example (non-exhaustively) Commission Implementing Decision (EU) 2016/1659 of 13 September 2016<sup>218</sup> that introduced species of *Melaleuca* (Tea Tree oil) into the list.

In the UK Herbal medicines can be registered under the traditional herbal registration scheme and the Medicines and Healthcare products Regulatory Agency, MHRA, list of registered traditional herbal medicines is updated regularly.<sup>219</sup> A list of banned or restricted herbal products, including for example aconite, belladonna, kava-kava and ragwort, is available.<sup>220</sup>

Periodic assessment of herbal products takes place, for example recently the International Agency for Research on Cancer, IARC, of the World Health Organization published an evaluation of carcinogenic risks to humans of some drugs and herbal medicines. Whole leaf extract of aloe vera, ginkgo biloba extract, goldenseal root powder, kava extract and the pulegone component of pennyroyal oils were classified in IARC Group 2B (possibly carcinogenic to humans).<sup>221, 222</sup>

## 3 Consumer choice

This section covers (3.1) labelling (3.3) composition (3.3) food fraud/food crime, (3.4) GMOs, (3.5) cloned animals, (3.6) novel foods, (3.7) consumer attitudes and (3.8) the Consumer Rights Act 2015.

<sup>213</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.251.01.0021.01.ENG&toc=OJ:L:2017:251:TOC

Walker D. R. (2015), Report on the Regulation of Herbal Medicines and Practitioners, 26 March 2015,

http://www.dcscience.net/Report\_on\_Regulation\_of\_Herbal\_Medicines\_and\_Practitioners.pdf

Directive 2001/83/EC http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474128484290&uri=CELEX:02001L0083-20121116

<sup>216</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474128379997&uri=CELEX:32004L0024

http://ec.europa.eu/health/human-use/herbal-medicines/index\_en.htm http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474057348374&uri=CELEX:32016D1659

https://www.gov.uk/government/publications/herbal-medicines-granted-a-traditional-herbal-registration-thr

https://www.gov.uk/government/publications/list-of-banned-or-restricted-herbal-ingredients-for-medicinal-use/banned-and-restricted-herbal-ingredients

http://monographs.iarc.fr/ENG/Monographs/vol108/mono108.pdf

Grosse et al. (2013), Carcinogenicity of some drugs and herbal products, *The Lancet Oncology*, 14, 807-808

## 3.1 Food labelling

The primary legislation is now Regulation 1169/2011<sup>223</sup> on the provision of food information to consumers, EU FIC. A useful summary of links to the legislation and guidance has been provided by Dr David Jukes of the University of Reading.<sup>224</sup> Domestic implementation is effected in England by the Food Information Regulations (SI 2014 No 1855),<sup>225</sup> in Northern Ireland by the Food Information Regulations (Northern Ireland) 2014 (SR 2014 No 223)<sup>226</sup> and, in Wales the Food Information Regulations (Wales) 2014 (SI 2014 No 2303, W227).<sup>227</sup> In Scotland implementation is by the Food Information Regulations (Scotland) 2014 (SSI 312)<sup>228</sup> which were amended in December 2015 by the Food Information (Miscellaneous Amendments) (Scotland) Regulations 2015 (SSI 410).<sup>229</sup> These make a set of small drafting amendments, for example clarifying aspects of the labelling of "alcohol-free", "dealcoholized" and "low alcohol" drinks.

Information is available on the Commission website.<sup>230</sup> Guidance on nutrition labelling is also available on the Commission website.<sup>231</sup>

See also Section 3.3.4 on Regulation (EU) No 1308/2013 on a common organisation of the markets in agricultural products and in particular a case in the European Court that precludes the terms 'milk' and 'milk product' being applied to plant based liquids.

### 3.1.1 Country of origin labelling

The Country of Origin of Certain Meats (England) Regulations 2015 (SI 518)<sup>232</sup> modified certain provisions of the Food Safety Act 1990, and implemented Articles 3 to 6 and 8 of Commission Implementing Regulation (EU) No 1337/2013 regarding the provenance or country of origin of certain types of meats (fresh, chilled and frozen meat of swine, sheep, goats and poultry). Please see our July – September 2015 report for further detail.<sup>233</sup>

Similar legislation has been enacted in Northern Ireland through The Country of Origin of Certain Meats Regulations (Northern Ireland) 2015<sup>234</sup> (SR 321) and in Wales by the Country of Origin of Certain Meats (Wales) Regulations 2015<sup>235</sup> (SI 1591, W177).

FSA in Northern Ireland in late March 2016 issued some clarification on voluntary labelling of Country of Origin. European food labelling legislation Regulation (EU) No. 1169/2011 on Food Information to Consumers introduced in December 2014 sets out requirements for "voluntary labelling" – including country of origin – stating that any additional voluntary claims must not mislead, be ambiguous or confuse consumers. The FSA in NI note that using the additional voluntary term "Irish" on food produced in Northern Ireland may be misleading to consumers as this term is also used to describe another member state of the EU. However, whether or not the use of the term "Irish" in food labelling is misleading, can only be determined by a court of law. The FSA continues to advise local authorities in Northern Ireland on a case by case basis.

http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:304:0018:0063:EN:PDF

http://www.reading.ac.uk/foodlaw/label/links.htm

http://www.legislation.gov.uk/uksi/2014/1855/pdfs/uksi 20141855 en.pdf

http://www.legislation.gov.uk/nisr/2014/223/pdfs/nisr\_20140223\_en.pdf

http://www.legislation.gov.uk/wsi/2014/2303/pdfs/wsi\_20142303\_mi.pdf

http://www.legislation.gov.uk/ssi/2014/312/pdfs/ssi\_20140312\_en.pdf

http://www.legislation.gov.uk/ssi/2015/410/pdfs/ssi\_20150410\_en.pdf http://ec.europa.eu/food/food/labellingnutrition/foodlabelling/proposed\_legislation\_en.htm

http://ec.europa.eu/food/food/labellingnutrition/nutritionlabel/index\_en.htm

http://www.legislation.gov.uk/uksi/2015/518/pdfs/uksi\_20150518\_en.pdf https://www.gov.uk/government/publications/food-and-feed-law-legislation-review-april-to-june-2015

http://www.legislation.gov.uk/nisr/2015/321/pdfs/nisr\_20150321\_en.pdf

http://www.legislation.gov.uk/wsi/2015/1519/pdfs/wsi\_20151519\_mi.pdf

Ultimately it is the food manufacturers' responsibility not to mislead consumers with the labelling information that they provide. <sup>236</sup>

#### 3.1.2 Fish labelling

The Fish Labelling Regulations 2013 (in each UK country) as amended remain the principle statutory provisions. A short guide to the EU's new fish and aquaculture consumer labels has been produced (with thanks to Dr Stephen Pugh, for drawing attention to this).<sup>237</sup>

## 3.1.3 Defra food labelling guidance

Defra have published guidance on the information that must be provided with food products to comply with the European Food Information to Consumers Regulation No 1169/2011 (FIC) and the Food Information Regulations 2014 (FIR).<sup>238</sup>

### 3.1.4 Organic food

The principal measure is Council Regulation (EC) No 834/2007 of 28 June 2007 on organic production and labelling of organic products.

Annex III to Commission Regulation (EC) No 1235/2008 sets out the list of third countries whose systems of production and control measures for organic production of agricultural products are recognised as equivalent to those laid down in Regulation (EC) No 834/2007. The regulation is successively updated and the latest version on EUR Lex should be consulted.

All foods sold as organic must originate from growers, processors and importers who are registered with an approved certification body and subject to regular inspection. A Defra list of UK approved organic control bodies is available.<sup>239</sup>

Commission Implementing Regulation (EU) 2016/1842 of 14 October 2016 amended Regulation (EC) No 1235/2008 including on electronic certificates of inspection for imported organic products, and Regulation (EC) No 889/2008 on requirements for preserved or processed organic products and the transmission of information. This was to reduce divergent application of control measures by member States. 240

Commission Implementing Regulation (EU) 2017/838 of 17 May 2017 amended Regulation (EC) No 889/2008 as regards feed for certain organic aquaculture animals. Under Regulation (EC) No 889/2008, the animals concerned are to be fed with feed naturally available in ponds and lakes but permits the use of organic feed of plant origin or seaweed where natural feed resources are not available in sufficient quantities and establishes maximum percentages of fishmeal and fish oil that can be included in the feed ration of siamese catfish and shrimps where naturally available feed is supplemented. Naturally occurring feed is limited or non-existent in the hatchery stage and the rules on feeding penaeid shrimps, in particular Tiger shrimp (*Penaeus monodon*) would lead to malnutrition and increased mortality if applied in the juvenile stages in a hatchery environment. The Regulation is amended accordingly.<sup>241</sup>

37

https://www.food.gov.uk/northern-ireland/news-updates/news/2016/15025/voluntary-labelling-of-country-of-origin

http://ec.europa.eu/fisheries/documentation/publications/eu-new-fish-and-aquaculture-consumer-labels-pocket-guide\_en.pdf

https://www.gov.uk/guidance/food-labelling-giving-food-information-to-consumers

https://www.gov.uk/government/publications/organic-certification-list-of-uk-approved-organic-control-bodies

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L \_.2016.282.01.0019.01.ENG&toc=OJ:L:2016:282:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32017R0838

Commission Implementing Regulation (EU) 2017/1473 of 14 August 2017 amended Regulation (EC) No 1235/2008 laying down detailed rules for implementation of Council Regulation (EC) No 834/2007 to remove 'Bolicert Ltd' from the list of control authorities and control bodies competent to carry out controls and issue certificates in third countries for the purpose of organic equivalence.<sup>242</sup>

A Commission Decision of 16 August 2017(2017/C 273/03) notes Decision 2009/427/EC establishing an expert group for technical advice on organic production and extends from three to four years the term of membership, which may be renewed for not more than three terms. <sup>243</sup> Commission Decision 2017/C 287/03 of 30 August 2017<sup>244</sup> lists the names of the members of the group.

#### 3.1.5 Net Quantities

Minor corrections were made to the Weights and Measures (Food) (Amendment) Regulations (Northern Ireland) 2016 No. 187 that originally came into operation on 18 April 2016. These Regulations remove provisions from weights and measures law applying in Northern Ireland that overlap or conflict with Regulation (EU) No 1169/2011 (provision of food information to consumers, FIC) and enable the enforcement of certain provisions of the FIC that relate to net quantity. An extensive explanatory note accompanies the main regulations.<sup>245</sup>

## 3.1.6 Protected names and quality schemes

There are three protection marks in the EU:<sup>246</sup>

- Protected geographical indication (PGI)
- Protected designation of origin (PDO)
- Traditional speciality guaranteed (TSG).

A list of UK protected names and a list of UK applications being considered is available. 247

Regulation (EU) No 1151/2012 of the European Parliament and of the Council of 21 November 2012 sets out the rules on quality schemes for agricultural products and foodstuffs, including PGI, PDO and TSG.<sup>248</sup>

## 3.2 Dual quality products

In September 2017 the Commission issued a notice (2017/C 327/01)<sup>249</sup> on the application of EU food and consumer protection law to the dual quality of food products. The notice stated that free movement of goods is one of the four fundamental freedoms of the Single Market but does not necessarily mean that every product must be identical in every corner of the Single Market. Whilst consumers are free to buy the products of their choice, business operators are also free to market and sell goods with different composition or characteristics, provided that they fully respect EU

https://www.gov.uk/guidance/eu-protected-food-names-how-to-register-food-or-drink-products

<sup>242</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.210.01.0004.01.ENG&toc=OJ:L:2017:210:TOC

<sup>243</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C \_.2017.273.01.0003.01.ENG&toc=OJ:C:2017:273:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C .2017.287.01.0003.01.ENG&toc=OJ:C:2017:287:TOC

The Weights and Measures (Food) (Amendment) Regulations (Northern Ireland) 2016, No. 187 and correction slip,

http://www.legislation.gov.uk/nisr/2016/187/regulation/1/made http://ec.europa.eu/agriculture/quality/schemes/index\_en.htm

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1488746464115&uri=CELEX:02012R1151-20130103

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C \_.2017.327.01.0001.01.ENG&toc=OJ:C:2017:327:TOC

legislation (whether on the safety of products, labelling or other horizontal or sectoral legislation). However, a source of concern can be when the different composition of identically branded goods has the potential to mislead the consumer.

The issue of certain dual quality products, and in particular food products, has been a source of growing concern. In March 2017, the European Council welcomed action by the Commission to take the issue further. This action combines dialogue with the parties concerned and practical steps to enable concrete measures to be taken by the responsible authorities. The Joint Research Centre is working on guidelines for a common testing methodology, as a step towards comparable and authoritative tests across the EU. This is essential to assess the magnitude of the issue, and to provide the sound evidence basis required for action to be taken. A Code of Conduct for producers is being discussed to set out standards to be respected to prevent dual quality problems. The Commission has also been looking at enforcement of relevant EU legislation together with national consumer protection and food authorities.

The current notice lists the relevant legislation, general food law (Regulation 178/2002), the food information to consumers regulation (Regulation 1169/2011) and the unfair commercial practices directive (Directive 2005/29/EC) as well as product specific law such as on chocolate, jam and fruit juice. The notice discusses the interaction between such measures and gives advice on their application, including cross border cooperation and a flow chart to help assess unfair business practices in the case of branded food products.

## 3.3 Composition

#### 3.3.1 Casein and caseinates

Directive (EU) 2015/2203 of the European Parliament and of the Council of 25 November 2015 brought up to date the approximation of the laws of the Member States relating to caseins and caseinates intended for human consumption and repeals Council Directive 83/417/EEC. The Directive defines the production, composition and labelling of casein and caseinates and stems from an international standard for edible casein products by the *Codex Alimentarius* Commission ('Codex standard for edible casein products'). Domestic implementation was formalised in late 2016 by the Caseins and Caseinates (Wales) Regulations 2016 No.1130 (W.270)<sup>252</sup> and the Caseins and Caseinates Regulations (Northern Ireland) 2016 No.415. The Caseins and Caseinates (Scotland) Regulations 2016 No.383<sup>254</sup> were made but were replaced on 15 December 2016 by the Caseins and Caseinates (Scotland) (No. 2) Regulations 2016<sup>255</sup> owing to defects in S.S.I. 2016/383.

Domestic implementation of Directive (EU) 2015/2203 was completed in July 2017 in England by the Caseins and Caseinates (England) Regulations 2017 which came into force on 26 September 2017. <sup>256</sup>

39

<sup>250</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1481228098768&uri=CELEX:32015L2203

<sup>251</sup> Codex Alimentarius Standard For Edible Casein Products CODEX STAN 290-1995 <a href="http://www.fao.org/fao-who-codexalimentarius/sh-">http://www.fao.org/fao-who-codexalimentarius/sh-</a>

http://legislation.data.gov.uk/wsi/2016/1130/contents/made/data.htm?wrap=true

http://www.legislation.gov.uk/nisr/2016/415/contents/made

http://www.legislation.gov.uk/ssi/2016/383/pdfs/ssi\_20160383\_en.pdf

http://www.legislation.gov.uk/ssi/2016/422/pdfs/ssi\_20160422\_en.pdf

http://www.legislation.gov.uk/uksi/2017/848/note/made

Previous measures on caseins in each country of the UK are revoked. The compositional criteria include minimum milk protein in dry matter, minimum content of casein in milk protein (95.0% m/m), maximum water content, maximum milkfat, ash, maximum lactose and pH.

### 3.3.2 International Standards for Fruit and Vegetables

These publications provide illustrations and commentary that facilitate the common interpretation of standards in force regarding the quality of various fruits and vegetables being traded internationally. They are published under the Scheme for the Application of International Standards for Fruit and Vegetables set up by the OECD in 1962.<sup>257</sup>

### 3.3.3 Honey

The making and coming into force of the Honey (Wales) Regulations 2015<sup>258</sup> (SI 1507, W174) completed the updating of domestic implementation of Council Directive 2001/110/EC relating to honey.<sup>259</sup> These regulations sit alongside the Honey (Scotland) Regulations 2015 (SSI 208),<sup>260</sup> the Honey Regulations (Northern Ireland) 2015 (SR 261),<sup>261</sup> and the Honey Regulations (England) 2015<sup>262</sup> (SI 1348) all revoking their 2003 predecessors. The Regulations regulate the use of the names "honey", "blossom honey", "nectar honey", "honeydew honey", "comb honey", "chunk honey" and "cut comb in honey", "drained honey", "extracted honey", "pressed honey", "filtered honey" and "baker's honey".

Compositional criteria and labelling are prescribed and an obligation is imposed on food authorities to enforce the Regulations. Provisions of the Food Safety Act 1990 enabling an improvement notice to be served requiring compliance with specified provisions of the Regulations are included and failure to comply with an improvement notice is an offence.

The Food Information Regulations 2014 are amended with a transitional provision in respect of food placed on the market or labelled before 24 June 2015, prohibiting an improvement notice from being served in relation to such food if it would have been compliant with the 2003 Honey Regulations.

A coordinated control plan to assess the prevalence on the market of honey adulterated with sugars and honeys mislabelled with regard to their botanical source or geographical origin is described on the Commission website. <sup>263</sup> The non-compliances detected by the Member States were mostly related to the declaration of the botanical source (7%) and to adulteration with sugar (6%). Non-compliances related to the declaration of the geographical origin were less frequent (2%). Some non-compliances related to the botanical source are probably unintentional and the result of bees foraging a wide variety of plants, despite the hives being very close to the plant species identified as the botanical source. Member States also submitted to the Commission Joint Research Centre, JRC, <sup>264</sup> 893 samples of honey which they had found to be compliant or suspicious. The JRC applied liquid chromatography-isotope ratio mass spectrometry, which can better distinguish different sugars than current validated methods. The findings were that 14 %

http://www.oecd-ilibrary.org/agriculture-and-food/international-standards-for-fruit-and-vegetables\_19935668

http://www.legislation.gov.uk/wsi/2015/1507/pdfs/wsi\_20151507\_mi.pdf

<sup>259</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1445979649018&uri=CELEX:02001L0110-20140623

http://www.legislation.gov.uk/ssi/2015/208/contents/made

http://www.legislation.gov.uk/nisr/2015/261/contents/made

http://www.legislation.gov.uk/uksi/2015/1348/pdfs/uksi\_20151348\_en.pdf

https://ec.europa.eu/food/safety/official\_controls/food\_fraud/honey\_en

https://ec.europa.eu/jrc/en

https://ec.europa.eu/food/sites/food/files/safety/docs/oc\_control-progs\_honey\_irc-tech-report\_2016.pdf

of the samples they tested contained added sugar. This was further broken down according to geographical origin, point of collection (i.e. producer, packager or retailer) and type of honey. Overall, the results from the honey coordinated control plan indicate that the practice of adding sugars to honey is occurring, both within the EU and in third countries. The Commission will discuss with the relevant stakeholders an appropriate follow-up to this control plan.

The New Zealand Ministry for Primary Industries has published scientific definition for New Zealand mānuka honey.<sup>266</sup>

## 3.3.4 Marketing of agricultural products

Regulation (EU) No 1308/2013 of the European Parliament and of the Council of 17 December 2013 establishes a common organisation of the markets in agricultural products. <sup>267</sup> This is an extensive piece of legislation that covers the following commodity sectors: cereals, rice, sugar, dried fodder, seeds, hops, olive oil and table olives, flax and hemp, fruit and vegetables, processed fruit and vegetable products, wine, live trees and other plants, bulbs, roots and the like, cut flowers and ornamental foliage, tobacco, beef and veal, milk and milk products, pigmeat, sheepmeat and goatmeat, eggs, poultrymeat, ethyl alcohol of agricultural origin, apiculture products, silkworms, and other products. The Single Common Market Organisation (Consequential Amendments) Regulations 2013<sup>268</sup> make appropriate changes to a wide range of domestic law including, for example, the Drinking Milk (England) Regulations, the Poultrymeat (England) Regulations, and the Spreadable Fats (Marketing Standards) Regulations. A correction slip was issued in September 2016<sup>269</sup> amending minor drafting errors in the 2013 regulations.

The European Court (Seventh Chamber) on 14 June 2017 gave a preliminary ruling with regard to the sales descriptions 'milk' and 'milk products'. The case was referred from a German court where the Applicant was Verband Sozialer Wettbewerb eV, a German association safeguarding competition, and the Defendant was TofuTown.com GmbH. The ECJ held that Regulation 1308/2013 (Article 78(2) and Annex VII, Part III) must be interpreted as precluding the term 'milk' and the designations reserved by that regulation exclusively for milk products from being used to designate a purely plant based product in marketing or advertising, even if those terms are expanded upon by clarifying or descriptive terms indicating the plant origin of the product at issue, unless that product is listed in Annex I to Commission Decision 2010/791/EU of 20 December 2010 listing the products referred to in the second subparagraph of point III(1) of Annex XII to Council Regulation (EC) No 1234/2007.

#### 3.3.5 Meat and meat products

Definitions of 'meat', 'meat product', 'meat preparation', 'minced meat, and 'mechanically separated meat' are found in Regulation (EC) No 853/2004 of the European Parliament and of the Council laying down specific hygiene rules for on the hygiene of foodstuffs.

The Products Containing Meat etc. Regulations 2014 enacted in England (e.g. SI 3001/2014<sup>2/1</sup>), Scotland, Wales and Northern Ireland lay down definitions and minimum meat content standards

41

https://www.mpi.govt.nz/growing-and-producing/bees-and-other-insects/manuka-honey/

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex:32013R1308

http://www.legislation.gov.uk/uksi/2013/3235/pdfs/uksi\_20133235\_en.pdf

http://www.legislation.gov.uk/uksi/2013/3235/made

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C\_.2017.277.01.0018.01.ENG&toc=OJ:C:2017:277:TOC

for certain meat products presented for sale directly to the consumer (see our report for October – December 2014). 272

Similar Regulations have been enacted in Scotland with the Products Containing Meat etc. Regulations (Scotland) Regulations 2014 (SSI 289/2014)<sup>273</sup> which revokes the Meat Products (Scotland) Regulations 2004 (SSI 6/2004), the Meat Products (Scotland) Amendment Regulations 2008(SSI 97/2008) and regulation 18(4) of the Food Additives (Scotland) Regulations 2009(SSI 436/2009), and in Northern Ireland with the Products Containing Meat etc. Regulations (Northern Ireland) 2014<sup>274</sup> (SR 285/2014).

There was a technical amendment to the Scottish regulations inserting a reference to section 22 of the Food Safety Act 1990 (defence of publication in the course of business) by the Products Containing Meat etc. (Scotland) Amendment Regulations 2016 (SSI 24/2016).<sup>275</sup>

A series of cases on 'desinewed meat' (DSM) and mechanically separated meat (MSM) reached the Court of Appeal with judgement given in May 2017. In essence an English firm, Newby Foods Ltd, sought to distinguish its product DSM from MSM. The first stage of the Newby process forces meat bearing bones into contact with each other so that meat is removed from the bones by shearing forces. In a second stage the meat removed in this way is then passed through a second machine, which is effectively a mincer, producing a product which looks like minced meat. This meat product was known in the UK as desinewed meat regarded by many, including formerly the FSA, as distinct from MSM. However the Commission maintains that DSM is MSM, and threatened to take action against the UK if DSM continued to be produced and sold without regard to the restrictions imposed upon MSM. This action could have involved "safeguard measures", restricting the export of UK meat products to the rest of the EU. Notwithstanding the fact that it disagreed with the Commission's classification of DSM as MSM, on 4 April 2012 the FSA issued a moratorium with the result that DSM could no longer be produced from beef and lamb bones, and could only be produced from chicken and pork bones if it were classified and labelled as MSM and not counted towards the meat content of products in which it was present. Newby brought proceedings and the High Court allowed that certain chicken and pork products manufactured by Newby should not be classified as MSM. However the High Court also made a preliminary reference to the European Court asking a series of questions that the ECJ amalgamated as:

...whether points 1.14 and 1.15 of Annex I to Regulation No 853/2004, which contain the definitions of ... 'mechanically separated meat' and 'meat preparations' respectively, must be interpreted as meaning that the product obtained by the mechanical removal of meat from flesh-bearing bones after boning or from poultry carcases must be classified as 'mechanically separated meat' within the meaning of that point 1.14 only where the process used results in a loss or modification of the muscle fibre structure which is significant, while the classification as 'meat preparations' within the meaning of point 1.15 must be chosen where that loss or modification is not significant. Secondarily, in the event that that interpretation should prevail, the referring court seeks to ascertain what degree of modification or loss is required for that modification or loss to have to be regarded as significant and what process should be used in order to determine whether the degree thus required has been attained.

https://www.gov.uk/government/publications/food-and-feed-law-legislation-review

http://www.legislation.gov.uk/ssi/2014/289/pdfs/ssi 20140289 en.pdf

http://www.legislation.gov.uk/nisr/2014/285/pdfs/nisr\_20140285\_en.pdf http://www.legislation.gov.uk/ssi/2016/24/pdfs/ssi\_20160024\_en.pdf

The ECJ held that the relevant provisions must be interpreted as meaning that the [Newby] product must be classified as 'mechanically separated meat' and cannot be classified as a 'meat preparation'. In the light of this the FSA appealed the High Court judgement which the Court of Appeal allowed, further concluding that the European Court judgement, properly understood, was conclusive and left no scope for argument as to the application of the law to the facts. It was not open to conclude that the products of Newby's process are not MSM.

The interested reader is advised to consider the full judgements:

Judgment of the Court (Tenth Chamber) 16 October 2014, Case C-453/13, Request for a preliminary ruling under Article 267 TFEU from the High Court of Justice (England and Wales), Queen's Bench Division (Administrative Court) (United Kingdom), in the proceedings The Queen, on the application of: Newby Foods Ltd v Food Standards Agency, and Case No: C1/2016/2112, In the Court of Appeal (Civil Division) on Appeal From High Court, Queen's Bench Division, Administrative Court, Mr. Justice Edwards-Stuart, CO69232012, (Jones, LJ, Beatson LJ and Moyland LJ). Proceedings The Queen's Bench Court, Mr. Justice Edwards-Stuart, CO69232012, (Jones, LJ, Beatson LJ and Moyland LJ).

#### 3.3.6 Olive oil and table olives

Pursuant to Article 91 of Regulation (EU) No 1308/2013 on the common organisation of the markets in agricultural products, Commission Regulation (EEC) No 2568/91 defines the chemical and organoleptic characteristics of olive and olive-pomace oil, and lays down methods of assessing those characteristics. Regulation (EEC) No 2568/91 methods are regularly updated in line with the work of the International Olive Council. The Olive Oil (Marketing Standards) Regulations 2014, which apply to the whole of the UK, and for which a correction slip has been issued (September 2016) implement the above.<sup>278</sup> The general position of the Commission as regards upcoming International Olive Council analytical matters was set out in Council Decision (EU) 2016/1080 of 27 June 2016.<sup>279</sup> Guidance on olive oil composition, characteristics and labelling is available from Defra.<sup>280</sup>

A corrigendum was issued on 26 September 2016 to Commission Delegated Regulation (EU) 2016/2095 amending Regulation (EEC) No 2568/91 on the characteristics of olive oil and oliveresidue oil and on the relevant methods of analysis. Certain limits for purity characteristics were corrected.<sup>281</sup>

#### **3.3.7 Spices**

The British Retail Consortium (BRC), Food and Drink Federation (FDF) and Seasoning and Spice Association (SSA) in liaison with the FSA and FSS have issued guidance for food companies that use culinary dried herbs and spices with information on best practice in assessing and protecting the authenticity of these products. <sup>282, 283</sup>

<sup>276</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1505653462283&uri=CELEX:62013CJ0453

http://www.bailii.org/ew/cases/EWCA/Civ/2017/400.htm I

http://origin-www.legislation.gov.uk/uksi/2014/195/contents/made

http://eur-lex.europa.eu/legal-content/EN/TXT/?gid=1474057348374&uri=CELEX:32016D1080

https://www.gov.uk/guidance/olive-oil-regulations-and-inspections

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.211.01.0058.01.ENG&toc=OJ:L:2017:211:TOC

https://www.fdf.org.uk/news.aspx?article=7539
https://www.fdf.org.uk/herbs-spices-guidance.aspx

#### 3.3.8 Spirit drinks etc.

Regulation (EC) No 110/2008 of the European Parliament and of the Council of 15 January 2008 controls the definition, description, presentation, labelling and the protection of geographical indications of spirit drinks.<sup>284</sup> Commission Regulation (EC) No 2870/2000<sup>285</sup> lists and describes the reference methods for the analysis of spirit drinks.

The Commission aims better to align the existing Regulation (EC) No 110/2008 on spirit drinks with the Treaty on the Functioning of the European Union. In June 2017 the European Economic and Social Committee published<sup>286</sup> a generally supportive opinion on the proposal. On presentation and labelling, the Committee suggested avoiding any kind of misrepresentation or misunderstanding in relation to 'imitation flavours'; Article 8(5) of the Commission proposal specifies that the sales denominations supplemented by the term 'flavour' (or any other similar terms) may be used to refer to flavourings that imitate a spirit drink or their use in the production of a foodstuff other than a beverage. The Committee considered that this provision could be misleading for consumers. The Committee also requested strengthened arrangements to allow fake spirits to be removed from the market.

#### 3.3.9 Wine

Wine law is complex and extensive; a readable guide is on the FSA website with links to European legislation.<sup>287</sup> Regulation 1308/2013 on the common organisation of the markets in agricultural products also applies, (see Section 3.3.4). There is no ready compendium of EU legislation on wine.

A search of EUR-Lex for 'wine' yields an unmanageable number of hits however it is possible to narrow this down by selecting legislation and searching on a year by year basis.

Recent updates include Commission Delegated Regulation (EU) 2017/670<sup>288</sup> of 31 January 2017, published in April 2017, supplementing Regulation (EU) No 251/2014<sup>289</sup> on authorised production processes for aromatised wine products, which includes, for example, vermouth and sangria. Regulation 2017/670 updates the production processes recommended and published by the International Organisation of Vine and Wine, OIV<sup>290</sup> which provides much useful information including methods of analysis.

Commission Delegated Regulation (EU) 2017/1353 of 19 May 2017 amended Regulation (EC) No 607/2009 as regards the wine grape varieties and their synonyms that may appear on wine labels. The regulation seeks to resolve a dispute between Croatia and Slovenia on use of the wine grape variety name 'Teran'. 291

#### 3.3.10 Water in frozen poultry

As with all animal species, poultry contains naturally present water, known as the 'physiological water'. Commercial processing in accordance with good manufacturing practice adds an amount

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474277348569&uri=CELEX:02008R0110-20160705

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1499102421377&uri=CELEX:02000R2870-20160426 http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C .2017.209.01.0054.01.ENG&toc=OJ:C:2017:209:TOC

https://www.food.gov.uk/business-industry/winestandards/lawguide

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.097.01.0005.01.ENG&toc=OJ:L:2017:097:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1498062395786&uri=CELEX:02014R0251-20140327

http://www.oiv.int/

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.190.01.0005.01.ENG&toc=OJ:L:2017:190:TOC

of technically unavoidable water known as 'extraneous water'. European legislation<sup>292</sup> sets limits for 'extraneous water' so that consumers are not being disadvantaged by excess 'extraneous water' in poultry meat they purchase.

A study funded by the European Commission and undertaken by LGC<sup>293</sup> has provided a comprehensive account of the current technologies used in the processing of poultry in the EU and the amount of technologically unavoidable water added to broiler chickens by different chilling methods.

The results obtained showed that the largest observed effect on the water/protein ratio was for portion type, with 'breast' behaving very differently to 'leg' and 'carcase'. Chilling method did not have a significant effect on 'breast' and provides evidence for retention of a single legal limit for breast fillet. Immersion chilling adds significantly more water to 'leg' and 'carcase' than any other chilling method. This provides evidence for retention of a separate legal limit for immersion chilled carcases but there is no strong evidence to require different limits for the other four chilling methods. 'Leg' also behaved very similarly to 'carcase' in this study. Thus it would be prudent to retain a separate legal limit for immersion chilled leg. Although this study has provided valuable information, data sets for some of the variables studied were small owing to the unavailability of some of the required samples, hence the results from this study should be treated with caution in considering future legislative limits.<sup>294</sup>

An interesting court case on water in poultry came before the (European) Court of Justice (Forth Chamber) with judgement given on 9 March 2017. This was a request for a preliminary ruling from a French court on Regulation (EC) No 543/2008 – Article 15(1) – Article 16 – Frozen or quick-frozen chickens – Maximum limit for water content. The questions for the court were as follows.<sup>295</sup>

- 1. Does compliance with the water-content threshold laid down by Article 15 of Regulation (EC) No 543/2008, in conjunction with Annexes VI and VII thereto, constitute a requirement of 'sound and fair marketable quality' within the meaning of Article 28(1) of Commission Regulation (EC) No 612/2009 and of the judgment of the Court of Justice in Nowaco Germany (C-353/04, EU:C:2006:522)?
- 2. Can frozen poultry with a water content exceeding the threshold laid down by Article 15 of Regulation (EC) No 543/2008, in conjunction with Annexes VI and VII thereto, accompanied by a health certificate issued by the competent authority, be marketed within the European Union in normal conditions, within the meaning of Article 28 of Regulation (EC) No 612/2009, and, if so, in what conditions?
- 3. Is the fact that the water-content threshold remains at 5.1 % under Annex VI to Regulation (EC) No 543/2008, and has not been revised for several decades, despite alleged changes in rearing practices and criticism in certain scientific studies that that threshold is obsolete, compatible or incompatible with EU law, and in particular with the principle of legal certainty?
- 4. Are Annexes VI and VII to Regulation (EC) No 543/2008 sufficiently precise for the checks provided for by Article 15 of that regulation to be carried out, or was France under an

https://ec.europa.eu/agriculture/sites/agriculture/files/external-studies/2016-water-in-poultrymeat/final-report\_en.pdf
http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C\_.2015.190.01.0004.01.ENG&toc=OJ:C:2015:190:TOC

45

Regulation (EU) No 1308/2013 of the European Parliament and of the Council establishing a common organisation of the markets in agricultural products <a href="http://eur-lex.europa.eu/legal-">http://eur-lex.europa.eu/legal-</a>

content/EN/TXT/?qid=1501780319097&uri=CELEX:02013R1308-20170801 and Commission Regulation (EC) No 543/2008 laying down detailed rules for the application of Council Regulation (EC) No 1234/2007 as regards the marketing standards for poultrymeat: <a href="http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32008R0543">http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32008R0543</a>.

http://www.lgcgroup.com/about-us/media-room/latest-news/2017/lgc-completes-study-to-establish-uptake-of-water-d/#.WUzKHbpFxMU

- obligation to lay down 'practical measures for the checks 'at all stages of marketing', failing which checks carried out at the stage of exportation of the goods cannot be relied upon?
- 5. Can the requests for counter-analyses which are provided for by Article 16(2) and (5) of Regulation No 543/2008 in respect of the results of slaughterhouse checks be extended to checks carried out at the stage of marketing of export products, in the presence of the parties, pursuant to, inter alia, Article 41 of the Charter of Fundamental Rights of the European Union?

The judgement of the Court of Justice<sup>296</sup> upheld the current law and confirmed that frozen or quick-frozen chickens with a water content exceeding the limits are not marketable in the EU and do not satisfy the requirement of sound and fair marketable quality. However the Court affirmed that an exporter of frozen or quick-frozen chickens may be present or represented when the goods are examined and when samples are taken and may request a further examination or sampling of the goods if he considers that the results obtained by the competent authorities are not valid.

The Court summarised its findings thus: 297

- The examination of the third question did not bring to light any evidence able to affect the validity of the limits for water content in frozen chicken meat laid down in Article 15(1) and Annexes VI and VII to Commission Regulation (EC) No 543/2008 of 16 June 2008 laying down detailed rules for the application of Council Regulation (EC) No 1234/2007 as regards the marketing standards for poultrymeat, as amended by Commission Implementing Regulation (EU) No 1239/2012 of 19 December 2012.
- 2. Article 28(1) of Commission Regulation (EC) No 612/2009 of 7 July 2009 on laying down common detailed rules for the application of the system of export refunds on agricultural products, as amended by Commission Regulation (EU) No 173/2011 of 23 February 2011, must be interpreted as meaning that frozen or quick-frozen chickens with a water content exceeding the limits set by Regulation No 543/2008, as amended by Implementing Regulation No 1239/2012, are not marketable in normal conditions on the territory of the European Union and do not satisfy the requirement of sound and fair marketable quality, even if they are accompanied by a health certificate issued by the competent authority.
- 3. Since Annexes VI and VII to Regulation No 543/2008, as amended by Implementing Regulation No 1239/2012, are sufficiently precise for the purpose of carrying out the checks on frozen and quick-frozen chickens intended for export with export refunds, the fact that a Member State has not adopted practical measures, whose adoption is provided for in Article 18(2) of that regulation, does not prevent those checks from being relied on against the undertakings concerned.
- 4. An exporter of frozen or quick-frozen chickens may, in accordance with Article 118(2) and Article 119(1), second subparagraph, of Regulation (EC) No 450/2008 of the European Parliament and of the Council of 23 April 2008 laying down the Community Customs Code (Modernised Customs Code) may, first, be present or represented when the goods are examined and when samples are taken and, second, may request a further examination or sampling of the goods if he considers that the results obtained by the competent authorities are not valid.

http://eur-lex.europa.eu/legal-

<sup>296</sup> http://curia.europa.eu/juris/document/document.jsf?docid=188754&doclang=en

content/EN/TXT/?uri=uriserv:OJ.C\_.2017.144.01.0002.01.ENG&toc=OJ:C:2017:144:TOC#ntr1-C\_2017144EN.01000201-E0001

## 3.4 Genetically modified organisms

Regulation (EC) No 1829/2003 of the European Parliament and of the Council provides for the authorisation, labelling and supervision of genetically modified food and feed.<sup>298</sup>

Commission Implementing Decisions on GMOs are recorded in relevant updates of this section but are not retained in the text going forward. For a register of EU authorised GMOs and those withdrawn from the market see the GMO register on the Commission website. <sup>299</sup> Labelling, environmental and post-market monitoring, a detection method and reference material are normally detailed in the Decisions.

A set of 23 genetically modified maize plant products were (re)-authorised, pursuant to Regulation (EC) No 1829/2003 of the European Parliament and of the Council, subject to the conditions specified in the respective regulations in July 2017. The authorisations were for use in food and food ingredients, feed, or any other use with the exception of cultivation. The Regulations were:

- (a) Commission Implementing Decision (EU) 2017/1207 of 4 July 2017 renewing the authorisation for the placing on the market of genetically modified maize MON 810 (MON- $\emptyset\emptyset$ 81 $\emptyset$ -6) products, (notified under document C(2017) 4453), 300
- (b) Commission Implementing Decision (EU) 2017/1209 of 4 July 2017 authorising the placing on the market of products containing, consisting of, or produced from genetically modified maize Bt11  $\times$  59122  $\times$  MIR604  $\times$  1507  $\times$  GA21, and genetically modified maize combining two, three or four of the events Bt11, 59122, MIR604, 1507 and GA21 (notified under document C(2017) 4460),  $^{301}$
- (c) Commission Implementing Decision (EU) 2017/1212 of 4 July 2017 authorising the placing on the market of products containing, consisting of, or produced from genetically modified maize DAS-40278-9, (notified under document C(2017) 4503). 302

#### 3.4.1 Cultivation of GMOs

Commission Directive 2015/412<sup>303</sup> amends Directive 2001/18/EC as regards the possibility for the Member States to restrict or prohibit the cultivation of genetically modified organisms (GMOs) in their territory. This devolves responsibility in this matter to Member States. See our previous quarterly report<sup>304</sup> for further details.

#### 3.5 Cloned animals

Cloning involves the removal of the nucleus from a somatic cell (any body tissue) of an animal and its transfer into an enucleated egg (an egg cell that has had its own nucleus removed) of a donor female of the same species. This is then stimulated to generate an embryo for transfer into a surrogate mother. In April 2016 the Defra Farm Animal Genetic Resources Committee issued a statement on cloning of farm animals. EU legislation regards foods and food ingredients derived from clones as novel foods. However, the European Commission and both the European Food Safety Authority and the UK Food Standards Agency acknowledge that meat and milk from healthy clones and healthy offspring of clones is indistinguishable from, and as safe as that from,

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1436450297142&uri=CELEX:02003R1829-20080410

http://ec.europa.eu/food/plant/gmo\_en

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.173.01.0018.01.ENG&toc=OJ:L:2017:173:TOC
 http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.173.01.0028.01.ENG&toc=OJ:L:2017:173:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.173.01.0028.01.ENG&toc=OJ:L:2017:173:TOC
 http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.173.01.0043.01.ENG&toc=OJ:L:2017:173:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2015.068.01.0001.01.ENG

https://www.gov.uk/government/publications/food-and-feed-law-legislation-review-april-to-june-2015

conventionally bred animals. The Defra Committee did not consider that there is any scientific justification for treating the products of the healthy offspring of clones, including semen and embryos, any differently from conventionally bred animals with regard to the production of food. The Committee noted that, in past trials, some cloned progeny have not developed normally, leading to significant welfare problems and premature death.<sup>305</sup>

In September 2015 the European Parliament adopted at first reading a draft directive prohibiting cloning of farmed bovine, porcine, ovine, caprine or equine animals, based largely on animal welfare concerns. In September 2017 this was recast as a draft regulation.<sup>306</sup>

The Government Chemist last looked at the analytical science of cloned animals in 2012 when it was found that reproducible traits that would be discriminatory for healthy adult cloned animals could not be defined.<sup>307</sup> This appears still to be the case.

## 3.6 Novel foods

Novel foods and novel food ingredients are regulated by Regulation (EC) No 258/97 due to be replaced on 1 January 2018 by Regulation (EU) 2015/2283 of the European Parliament and of the Council of 25 November 2015 on novel foods. A Commission Q&A is available and a list of authorisations. The new regulation introduces a centralised authorisation procedure with EFSA conducting the scientific risk assessment and also introduces a notification procedure for traditional food from third countries. New EFSA guidance documents were finalised and adopted in November 2016. See also Section 4.4 on food supplements for novel foods permitted only in supplements.

## 3.7 Consumer attitudes

The Food Standards Agency publishes regular reports of surveys into information about the public's self-reported behaviours, attitudes and knowledge relating to food issues. The latest such report, published on 30 March 2017,<sup>312</sup> found that broad consumer trends in relation to food remained largely consistent with previous waves of the survey. Consumers reported a number of practices that are in line with FSA recommendations on food safety in the home:

- More than eight out of ten respondents reported hand washing behaviours in line with recommended practices, saying they always washed their hands before starting to prepare or cook food (86%), and immediately after handling raw meat, poultry or fish (87%).
- The FSA recommends that the use by date is the best indicator of whether food is safe to eat, and this was cited as an indicator by 75% of respondents. While similar to the proportions in Wave 2 and Wave 3, this was higher than the proportion in Wave 1 (62%).

The survey also flagged some areas where consumers report not following recommended best practice. The most common method reported to defrost meat or fish was leaving meat or fish at room temperature (58%), which is not recommended, (defrost in the fridge).

https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/524769/fangr-cloning-farm-animals-statement.pdf

<sup>306</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C\_.2017.316.01.0278.01.ENG&toc=OJ:C:2017:316:TOC

<sup>307</sup> https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/332618/Cloned\_animal\_report.pdf

<sup>308</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2015.327.01.0001.01.ENG&toc=OJ:L:2015:327:TOC

http://europa.eu/rapid/press-release\_MEMO-15-5875\_en.htm

http://ec.europa.eu/food/safety/novel\_food/authorisations/list\_authorisations/index\_en.htm

https://www.efsa.europa.eu/en/press/news/161110

https://www.food.gov.uk/news-updates/news/2017/16111/latest-food-and-you-survey-report-published

The findings also help to build a picture of consumers' eating out practices and highlight the importance of cleanliness and hygiene when people decide where to eat out. For example when shown a list of factors which might influence their decision on where to eat out, 72% reported that the cleanliness and hygiene of the establishment was important to them; overall a third (30%) of respondents who ate out considered this the most important factor.

New questions introduced in this wave provide some important insights to inform the Food Standards Agency's future work including:

Questions on allergy and intolerance which show that of those who reported an adverse reaction or avoided certain foods, the most common foods that people reported having an adverse reaction to were cows' milk and cows' milk products (22%), cereals containing gluten (13%) and molluscs, e.g. mussels, oysters (11%).

Similar surveys were conducted in Wales and Northern Ireland.

Key findings from Northern Ireland<sup>313</sup> include:

- More than eight out of 10 respondents in Northern Ireland reported hand washing behaviours in line with recommended practices, saying they always washed their hands before starting to prepare or cook food (85%), and immediately after handling raw meat, poultry or fish (87%).
- When asked which methods they used to defrost meat or fish, the most common method was leaving meat or fish at room temperature (65%), which is not recommended.
- Respondents living in Northern Ireland, compared to those living in England, were more likely to agree that they recognised the Food Hygiene Rating Scheme (89% compared with 82%).

The findings also highlighted cooking, shopping and eating habits:

- Women in Northern Ireland were more likely than men to have all the responsibility for cooking or preparing food in the home (66% compared with 27%). And the proportion of women who reported having all or most of the responsibility for food shopping was more than twice the proportion of men (68% compared with 24%).
- When asked about the recommended number of calories average men and women should eat in a day, 38% mentioned 2,500 calories for men, and 41% mentioned 2,000 calories for women, both in line with recommendations.
- People in Northern Ireland were most likely to mention restaurants (58%), fast food restaurants (52%), and takeaway outlets (47%) as places where they would like to see more information about healthy eating options.

In Wales, 314 hand washing was at a similar level to Northern Ireland with more than 8 out of 10 respondents reporting hand washing behaviours in line with recommended practices, saying they always washed their hands before starting to prepare or cook food (86%), and immediately after handling raw meat, poultry or fish (89%). The FSA recommends that the use by date is the best indicator of whether food is safe to eat, and this was cited as an indicator of whether food was safe to eat by 80% respondents in Wales. Welsh respondents (56%) also left meat or fish at room temperature to defrost which is not recommended. The findings also help to build a picture of Welsh consumer's eating out practices and highlight the importance of cleanliness and hygiene when people decide where to eat out. When shown a list of factors which might influence their

https://www.food.gov.uk/news-updates/news/2017/16162/latest-food-and-you-survey-report-published-for-northern-ireland https://www.food.gov.uk/wales/news-updates/news/2017/16164/latest-food-and-you-survey-report-published-for-wales

decision on where to eat out, 71% of respondents in Wales reported that the cleanliness and hygiene of the establishment was important to them; overall a third (34%) of respondents who ate out considered this the most important factor. New questions introduced in this wave included questions on allergy and intolerance showing that of those in Wales who reported an adverse reaction or avoided certain foods, the most common foods that people reported having an adverse reaction to were cows' milk and cows' milk products (25%), cereals containing gluten (11%) and eggs (8%).

## 3.8 The Consumer Rights Act 2015

The Consumer Rights Act 2015, which in certain circumstances may be applicable to food, became law on 1 October 2015, replacing three major pieces of consumer legislation – the Sale of Goods Act, Unfair Terms in Consumer Contracts Regulations and the Supply of Goods and Services Act. 315, 316

## 4 Health and nutrition

#### 4.1 Nutrition and health claims

Regulation (EC) No 1924/2006 on nutrition and health claims made on foods governs the use of these claims in the labelling, presentation and advertising of foods. It aims at enabling consumers to make healthier choices by protecting them from misleading information and ensuring a level playing field for food businesses to operate within the single market. Since its adoption in 2006, the implementation of the Regulation remains incomplete since nutrient profiles, that the Commission was requested to set by January 2009, have not been established and health claims on plants and their preparations used in foods are not yet fully regulated. The Commission's plan to carry out a REFIT evaluation of the EU legislation on nutrition and health claims was announced in its Better Regulation Communication of 19 May 2015. This REFIT evaluation aims at focusing on nutrient profiles and health claims on plants and their preparations added to foods. It also aims at considering the more general regulatory framework for the use of such substances in foods since it is closely related to the use of health claims. A route-map and progress are available.<sup>317</sup>

Guidance on nutrition labelling is available on the Commission website. 318 Commission Regulation (EU) No 432/2012 established the list of permitted health claims and started to apply from 14 December 2012. 319 The EU Register of nutrition and health claims is also available 320 hence successive amendments to Regulation 432/2012 are not usually recorded here unless a change is made that requires further explanation.

See also a 2017 publication that summarises current issues in nutrition and health claims. 321

An example of the complexities of nutrition claims regulation is a case that occurred in August 2016 when Commission Regulation (EU) 2016/1413<sup>322</sup> amended Regulation (EU) No 432/2012 in

https://www.gov.uk/government/publications/consumer-rights-act-2015/consumer-rights-act-2015

http://www.which.co.uk/consumer-rights/regulation/consumer-rights-act

http://ec.europa.eu/food/safety/labelling\_nutrition/claims/refit/index\_en.htm

http://ec.europa.eu/food/food/labellingnutrition/nutritionlabel/index\_en.htm http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32012R0432

http://ec.europa.eu/food/safety/labelling\_nutrition/claims/register/index\_en.htm

Walker, M. J. (2017), Health and nutrition claims – guidance, regulation and self-regulation, *Nutrition Bulletin*, 42: 69-79

respect of two claims authorised for meal replacement for weight control. The conditions of use of those claims require that in order to bear them, the food should contain a maximum of 250 kcal per serving and comply with specifications laid down in Directive 96/8/EC. However Directive 96/8/EC has been replaced by Regulation 609/2013 (see Section 4.2) therefore, the references to Directive 96/8/EC needed to be replaced. Regulation 1169/2011 on the provision of food information to consumers (see Section 3.1) sets out nutrient reference values for vitamins and minerals that differ from some of those in Directive 96/8/EC.

The advice of EFSA was that this did not impact upon the substantiation of the two health claims and, further, there was no need to require that meal replacement for weight control provides at least 30 % of the nutrient reference values of fluoride, chromium, chloride and molybdenum per meal as laid down in Regulation (EU) No 1169/2011. Regulation 1169/2011 does not set a nutrient reference value for sodium. However, taking into account the intended use of meal replacement for weight control products, the requirement to provide 30 % of the sodium amount per meal as laid down in Directive 96/8/EC was maintained. A nutrient reference value for potassium is set at 2000 milligrams in Regulation 1169/2011. Directive 96/8/EC did not require for meal replacement for weight control to provide 30 % of the potassium value, but set a minimum amount at 500 milligram per meal and this value was maintained. The requirements set out in Directive 96/8/EC on fat, protein and amino acids were also maintained. Mandatory labelling particulars included in Directive 96/8/EC were maintained and a transitional period from 21 July 2016 until 14 September 2019 applies overall.

Regular bulletins are available from the Department of Health on EU legislation on nutrition and health claims.  $^{323}$ 

The assessment of some botanical claims is 'on hold'<sup>324</sup> and an action was brought against the Commission for failure to act in that the Commission has unlawfully failed to initiate the assessment of health claims on botanical substances by EFSA. However this was dismissed by the court, see Order of the Court (Eighth Chamber) of 25 October 2016 – VSM Geneesmiddelen BV v European Commission, (Case C-637/15 P).<sup>325-327</sup>

Belgium has published a new decree, updating the "BELFRIT" project, a close cooperation between Belgium, France and Italy to harmonize the legislation on botanicals in food supplements. The number of plants authorized in food supplements in Belgium has increased significantly, from about 645 to more than 1000 plants. Consequently a considerable number of new conditions of use are now applicable. New maximum levels and mandatory warnings for about 250 plants will have to be taken into account when notifying food supplements. As a transitional measure, foodstuffs that do not comply with the provisions of the new decree, but conform with the provisions of the former decree, can still be placed on the market until 20 February 2019. 328

https://www.gov.uk/government/publications/nutritional-and-health-claims-legislation-bulletins-2015

For further information see Walker, M. J. (2017), Health and nutrition claims – guidance, regulation and self-regulation, *Nutrition Bulletin*, 42, 69-79

<sup>325</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C\_.2017.063.01.0007.02.ENG&toc=OJ:C:2017:063:TOC

http://curia.europa.eu/juris/document/document.jsf?docid=174170&doclang=en

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:62015CO0637

http://www.foodcomplianceinternational.com/blog/2017/2/15/new-belgian-belfrit-decree-on-botanicals-applicable

## 4.1.1 Case law – ability to withhold authorisation despite EFSA favourable opinion

In an interesting case the European Court upheld the refusal of the Commission to authorise a series of health claims despite favourable EFSA opinions. The claims related to the normal metabolism of glucose and its support of normal physical activity. The Commission relied upon Regulation (EC) No 1924/2006 powers to withhold authorisation if health claims do not comply with general and specific requirements of the Regulation even in the face of a favourable scientific assessment by EFSA. The glucose health claims, it was held, would convey a conflicting and confusing message to consumers, because it would encourage consumption of sugars of which, on the basis of generally accepted scientific advice, national and international authorities advise consumers to reduce their intake. Therefore, such claims contravene point (a) of the second paragraph of Article 3 of the Regulation that claims should not be ambiguous or misleading. The applicant company brought an action seeking the annulment of the regulation which was refused by the General Court (Fifth Chamber) on 16 March 2016. The company appealed the decision which was again dismissed with costs against the appellant in July 2017. 329

## 4.1.2 Committee on Advertising Practice, CAP

On 9 December 2016 CAP announced new restrictions on advertising to children which will prevent the advertising of food and soft drinks that are high in fat, salt or sugar, HFSS, being targeted at children under 16. The rules apply across all non-broadcast media including on-line and social media. CAP have also amended existing content rules – these prohibit the use of promotions and licensed characters or celebrities in ads targeted through their content at under-12s – to allow non-HFSS advertising more freedom. The changes bring the CAP Code into line with the rules that have governed TV advertising since 2007. 330

# 4.2 Food for infants and young children, medical purposes and weight control

Regulation (EU) No 609/2013, which came fully into effect from 20 July 2016, lays down general compositional and information requirements for the above categories of food, including infant formula and follow-on formula. The Commission adopted specific compositional and information requirements for infant formula and follow-on formula, taking into account the provisions of Directive 2006/141/EC. Infant formula is the only processed foodstuff which wholly satisfies the nutritional requirements of infants during the first months of life until the introduction of appropriate complementary feeding. In order to safeguard the health of those infants, it is necessary to ensure that infant formula is the only product marketed as suitable for such use during that period. The essential composition of infant formula and follow-on formula must satisfy the nutritional requirements of infants in good health as established by generally accepted scientific data. Infant formula and follow-on formula are sophisticated products that are specially formulated for a vulnerable group of consumers. In order to ensure the safety and suitability of such products, detailed requirements are laid down on the composition of infant formula and follow-on formula, including requirements on energy value, macronutrient and micronutrient content. These requirements are based on an EFSA opinion on the essential composition of infant and follow-on formulae. Commission Delegated Regulation 2016/127331 supplements Regulation 609/2013 as regards the specific compositional and information requirements for

<sup>329</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C .2017.249.01.0010.02.ENG&toc=OJ:C:2017:249:TOC

https://www.cap.org.uk/News-reports/Media-Centre/2016/Insight-New-rules-ban-advertising-of-HFSS-food-and-drink-products-in-childrens-media.aspx#.WJr3eFJvhFohttp://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2016.025.01.0001.01.ENG&toc=OJ:L:2016:025:TOC

infant formula and follow-on formula and as regards requirements on information relating to infant and young child feeding. Commission Delegated Regulation 2016/128<sup>332</sup> supplements Regulation No 609/2013 as regards the specific compositional and information requirements for food for special medical purposes.

Domestic legislation to implement Regulation 609/2013 began in June 2016 with the Foods for Specific Groups (Scotland) Regulations 2016,190 coming into force on 20 July 2016. The Scottish instrument provides for enforcement by Scottish local authorities, offences and penalties and appropriate modification of certain provisions of the Food Safety Act 1990, amendment of the Foods Intended for Use in Energy Restricted Diets for Weight Reduction Regulations 1997 and revocation of subordinate legislation.

Domestic implementation of Regulation 609/2013 continued in July 2016 with the Food for Specific Groups (Information and Compositional Requirements) in England (and see below), Wales and Northern Ireland introducing an improvement notice, IN, enforcement regime in which failure to comply with an IN is a criminal offence. In the English<sup>334</sup> and Welsh<sup>335</sup> statutory instruments the IN regime sits alongside existing domestic criminal sanctions in the Foods Intended for Use in Energy Restricted Diets for Weight Reduction Regulations 1997, the Medical Food (England) Regulations 2000, the Medical Food (Wales) Regulations 2000, the Processed Cereal-based Foods and Baby Foods for Infants and Young Children (England) Regulations 2003, the Processed Cereal-based Foods and Baby Foods for Infants and Young Children (Wales) Regulations 2004, the Infant Formula and Follow-on Formula (England) Regulations 2007, and their Welsh equivalent, the Food for Particular Nutritional Uses (Addition of Substances for Specific Nutritional Purposes) (England) Regulations 2009 and their Welsh equivalent.

In Northern Ireland<sup>336</sup> enforcement at first instance is also by IN however the Notification of Marketing of Food for Particular Nutritional Uses Regulations (Northern Ireland) 2007 (S.R. 2007 No. 60), are revoked as are the Food for Particular Nutritional Uses (Miscellaneous Amendments) Regulations (Northern Ireland) 2010 (S.R. 2010 No. 33), and regulations 26 and 27 of the Infant Formula and Follow on Formula Regulations (Northern Ireland) 2007 (S.R. 2007 No. 506).

The Food for Specific Groups (Information and Compositional Requirements) (England) (Amendment) Regulations 2017 No.62, coming into force on 1 March 2017, corrected errors in SI 2016/688, and correctly applied a modified s.35 (Punishment of offences) of the Food Safety Act 1990.<sup>337</sup>

Commission Delegated Regulation (EU) 2017/1522 of 2 June 2017 supplemented Regulation (EU) No 609/2013 setting out specific compositional and information requirements for total diet replacement for weight control.<sup>338</sup> However in a corrigendum<sup>339</sup> issued on 6 September 2017, Commission Delegated Regulation (EU) 2017/1522 was declared null and void.

<sup>332</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L \_.2016.025.01.0030.01.ENG&toc=OJ:L:2016:025:TOC

http://www.legislation.gov.uk/ssi/2016/190/contents/made

The Food for Specific Groups (Information and Compositional Requirements) (England) Regulations 2016 <a href="http://www.legislation.gov.uk/uksi/2016/688/pdfs/uksi-20160688-en.pdf">http://www.legislation.gov.uk/uksi/2016/688/pdfs/uksi-20160688-en.pdf</a>

The Food for Specific Groups (Information and Compositional Requirements) (Wales) Regulations 2016 <a href="http://www.assembly.wales/laid%20documents/sub-ld10709/sub-ld10709-e.pdf">http://www.assembly.wales/laid%20documents/sub-ld10709/sub-ld10709-e.pdf</a>

The Food Safety (Information and Compositional Requirements) Regulations (Northern Ireland) 2016http://www.legislation.gov.uk/nisr/2016/251/made

http://www.legislation.gov.uk/uksi/2017/62/contents/made

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.230.01.0001.01.ENG&toc=OJ:L:2017:230:TOC http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.234.01.0007.01.ENG&toc=OJ:L:2017:234:TOC

## 4.3 Sugar

Sugar continues to be a topic of keen current interest. In October 2015 Public Health England, PHE, published<sup>340</sup> a review of a broad range of measures to reduce the nation's excessive sugar consumption.

The Health (Miscellaneous Provision) Act (Northern Ireland) 2016: Chapter 26,<sup>341</sup> achieved Royal assent on 12 May 2016. This Act is to regulate the sale or use of nicotine products and tobacco, and to make other miscellaneous provisions but also includes provision in relation to sugar sweetened drinks. It requires the NI Department of Health, Social Services and Public Safety to carry out a study on a levy on sugar sweetened drinks within two years to determine:

- (a) a definition of sugar sweetened drinks;
- (b) which sugar sweetened drinks should be subject to a levy;
- (c) factors to be considered in determining and administering a levy;
- (d) the financial rate at which a levy may be set;
- (e) the anticipated health and economic impacts of the levy; and
- (f) the options for funding measures to address adverse health conditions associated with the consumption of sugary drinks derived from the levy revenue.

On 30 March 2017 PHE published new guidelines for the food industry demonstrating how it may be possible to remove 20% of the sugar in nine categories of food which contribute the most to children's intakes.<sup>342</sup>

PHE has engaged with all sectors of the food industry to reduce the amount of sugar in the foods that contribute most to children's intakes by 20% by 2020, with a 5% reduction in the first year. <sup>343</sup> Industry response was positive. <sup>344</sup>

The government announced in the 2017 budget a proposal to introduce a soft drinks industry levy in April 2018. The new tax will be applied to soft drinks which contain added sugar, and have a total sugar content above certain thresholds. The government is introducing the levy in an effort to tackle obesity by reducing the consumption of drinks with added sugar, and to encourage manufacturers to reduce the sugar content of their products. 345, 346

Commission Implementing Regulation (EU) 2017/1344 of 18 July 2017<sup>347</sup> amending Annex I to Council Regulation (EEC) No 2658/87 on the Common Customs Tariff and Commission Implementing Regulation (EU) 2017/1409 of 1 August 2017<sup>348</sup> amending Implementing Regulation (EU) No 75/2013 and Regulation (EC) No 951/2006 on import duties in the sugar sector give details of the calculation of the sucrose content of various products including isoglucose and certain syrups by HPLC or refractometry.

https://www.gov.uk/government/news/new-evidence-review-of-measures-to-reduce-sugar-consumption

http://www.legislation.gov.uk/nia/2016/26/pdfs/nia\_20160026\_en.pdf

https://publichealthmatters.blog.gov.uk/2017/03/30/expert-interview-new-guidelines-for-industry-on-the-sugar-reduction-programme/

https://www.gov.uk/government/collections/sugar-reduction

https://www.fdf.org.uk/news.aspx?article=7778&newsindexpage=3

https://www.gov.uk/government/publications/soft-drinks-industry-levy/soft-drinks-industry-levy

http://www.britishsoftdrinks.com/write/MediaUploads/Publications/The Economic Impact of the Soft Drinks Levy.pdf

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.186.01.0003.01.ENG&toc=OJ:L:2017:186:TOC http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.201.01.0021.01.ENG&toc=OJ:L:2017:201:TOC

## 4.4 Food supplements

A useful summary by the Department of Health on legislation relating to the sale of food supplements is available.<sup>349</sup>

As part of the e-Library of Evidence for Nutrition Actions (eLENA)<sup>350</sup> in August 2017 the World Health Organization, WHO, published two sets of guidelines on fortification of foods with micronutrients (vitamins and minerals):

- 'Use of multiple micronutrient powders for point-of-use fortification of foods consumed by pregnant women', 351
- Use of Multiple Micronutrient Powders for Point-of-Use Fortification of Foods Consumed by Infants and Young Children Aged 6–23 Months and Children Aged 2–12 Years'. 352

In a case referred from France the European Court (First Chamber) gave a ruling on 27 April 2017 that appears to block Member States from setting national legislation on vitamins and minerals in food supplements. The referring court, Tribunal de grande instance de Perpignan, asked three questions in relation to Directive 2002/46/EC and Community principles of free movement of goods and mutual recognition. Do the above measures (1) prevent national legislation precluding mutual recognition of products lawfully marketed in another Member State where their nutrient content exceeds limits set in the national legislation, and allow (2) national legislation to set nutrient limits based on (3) national scientific opinions that derive multiples of recommended daily allowances? The Court decided that Member States cannot enact national legislation based on national scientific opinions to prohibit, by limits on nutrients, sale of food supplements lawfully manufactured or marketed in another Member State. Any upper safe nutrient levels must be established by a comprehensive scientific assessment of the risks for public health, based not on general or hypothetical considerations, but on relevant scientific data. It is for the referring court to assess whether the method for the setting of those amounts at issue in the main proceedings complies with those requirements.

Regulation (EC) No 1925/2006 of the European Parliament and of the Council of 20 December 2006 governs the addition of vitamins and minerals and of certain other substances to foods and Annex II to Directive 2002/46/EC establishes the list of vitamin and mineral substances, which may be used in the manufacture of food supplements. Requests for the addition of organic silicon as a source of silicon, and separately, for calcium phosphoryl oligosaccharides (POs-Ca®) as a source of calcium, to the list set out in Annex II to Directive 2002/46/EC were processed by the Commission with EFSA being consulted. A favourable EFSA opinion ensued on organic silicon (monomethylsilanetriol; MMST) as a novel food ingredient for use as a source of silicon in food supplements and bioavailability of orthosilicic acid from the source. It follows from that opinion that the use of organic silicon (monomethylsilanetriol) in food supplements is not of a safety concern as a source of silicon, provided that certain conditions are respected. In EFSA's opinion the addition of calcium phosphoryl oligosaccharides (POs-Ca®) to food and its use in food supplements is not of a safety concern as a source of calcium, provided that certain conditions are respected. Thus Commission Regulation (EU) 2017/1203 of 5 July 2017 added both to Annex II to Directive 2002/46/EC.<sup>355</sup>

http://www.who.int/nutrition/publications/micronutrients/guidelines/mmpowders\_pregnant\_women/en/

https://www.gov.uk/government/publications/food-supplements-guidance-and-faqs.

http://www.who.int/elena/en/

http://www.who.int/elena/titles/guidance\_summaries/micronutrientpowder\_infants/en/

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C\_.2016.090.01.0008.01.ENG&toc=OJ:C:2016:090:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C\_.2017.202.01.0005.01.ENG&toc=OJ:C:2017:202:TOC

<sup>355</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L \_.2017.173.01.0009.01.ENG&toc=OJ:L:2017:173:TOC

#### 4.4.1 L-ergothioneine – novel food

Commission Implementing Decision (EU) 2017/1281 of 13 July 2017 authorised the placing on the market of L-ergothioneine (Figure 1) as a novel food ingredient under Regulation (EC) No 258/97. The compound is reputed to exhibit antioxidant and cytoprotective capabilities<sup>356</sup> but member states raised several queries on its safety when it was first proposed as a novel food. However, following a favourable EFSA opinion<sup>357</sup> it has been permitted as an ingredient of food supplements to maxima of 30 mg/day for the general population (excluding pregnant and lactating women) and 20 mg/day for children older than 3 years.<sup>358</sup>

Figure 1: L-ergothioneine, source Chemspider <a href="http://www.chemspider.com/Default.aspx">http://www.chemspider.com/Default.aspx</a>

## 4.4.2 Prolyl oligopeptidase – novel food

Commission Implementing Decision (EU) 2017/1387 of 24 July 2017 authorised the placing on the market of an enzyme preparation of prolyl oligopeptidase produced with a genetically modified strain of *Aspergillus niger* as a novel food ingredient under Regulation (EC) No 258/97 of the European Parliament and of the Council, (notified under document C(2017) 4975).<sup>359</sup>

## 4.5 Obesity and healthy eating

Obesity, as well as causing obvious physical changes, can lead to a number of serious and potentially life-threatening conditions, such as type 2 diabetes, coronary heart disease, some types of cancer, such as breast cancer and bowel cancer, and stroke. Obesity can also affect quality of life and lead to psychological problems, such as depression and low self-esteem. There are major implications for the National Health Service.

The Department of Health maintains a section of the government website dedicated to obesity and healthy eating policy, and best practice papers.<sup>361</sup>

In Wales the Public Health (Wales) Act 2017, Deddf Iechyd y Cyhoedd (Cymru) 2017, received Royal assent in July 2017 and includes provision for a national strategy on tackling obesity and other public health matters such as smoking.<sup>362</sup>

<sup>356</sup> Cheah I. K., Halliwell B. (2012) Ergothioneine; antioxidant potential, physiological function and role in disease, Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease, 1822, 784-793

https://www.efsa.europa.eu/en/efsajournal/pub/4629

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.184.01.0065.01.ENG&toc=OJ:L:2017:184:TOC#ntr2-L 2017184EN.01006501-E0002

<sup>359</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2017.194.01.0065.01.ENG&toc=OJ:L:2017:194:TOC

http://www.nhs.uk/Conditions/Obesity/Pages/Introduction.aspx

https://www.gov.uk/government/policies/obesity-and-healthy-eating http://www.legislation.gov.uk/anaw/2017/2/part/1/enacted

#### 5 Regulation

A fundamental review of the basis of food and feed regulation is beyond the scope of this report however significant measures include the Food Safety Act 1990, 363 the Food Standards Act 1999<sup>364</sup> and the Official Feed and Food Controls (England) Regulations 2009 last amended, in England, by the Animal Feed (Hygiene, Sampling etc. and Enforcement) (England) Regulations 2015 that came into force on 6 April 2015, see Sections 5.4 and 6.1. European measures include Regulation (EC) No 178/2002 of the European Parliament and of the Council of 28 January 2002 laying down the general principles and requirements of food law ... (etc), 365 and Regulation (EU) 2017/625 of the European Parliament and of the Council of 15 March 2017 on official controls and other official activities 366, 367 which replaced Regulation (EC) No 882/2004 368 in 2017. Background to this was given in a previous edition of this report A fuller discussion of Regulation (EU) 2017/625 is at Section 1.4 of our April – June 2017 report.<sup>370</sup>

#### 5.1 **International Developments**

In the USA the FDA Food Safety Modernization Act (FSMA), the most sweeping reform of US food safety laws in more than 70 years, was signed into law by President Obama on 4 January 2011. In brief it aims to ensure the US food supply is safe by shifting the focus from responding to contamination to preventing it. The full text and guidance are available on the FDA website.<sup>371</sup>

A useful review of food safety policy and regulation in the United States is available (dated 2015) from the European Commission.<sup>372</sup>

In Canada consultations continue on the proposed Safe Food for Canadians Regulations (SFCR) introduce modern food safety requirements for businesses that import food, or prepare food to be exported or sold across Canadian provinces.<sup>373</sup>

Pursuant to 2017/C 205/08374 on networking of organisations operating in fields within EFSA responsibilities an updated list of competent organisations is available 375 and includes, for the UK, Public Analyst laboratories, LGC, Fera, PHE and academic institutions.

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http://www.legislation.gov.uk/ukpga/1990/16/contents and see also
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The Food Safety Act 1990 (Consequential Modifications) (Scotland) Order 1990

The Food Safety Act 1990 (Consequential Modifications) (No 2) (Great Britain) Order 1990

The Food Safety Act 1990 (Consequential Modifications) (England and Wales) Order 1990

The Food Safety Act 1990 (Commencement No. 1)Order 1990 The Food Safety Act 1990 (Commencement No. 2) Order 1990

The Food Safety Act 1990 (Commencement No. 2) Order 1990

http://www.legislation.gov.uk/ukpga/1999/28/contents

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1488723013503&uri=CELEX:02002R0178-20140630

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.095.01.0001.01.ENG&toc=OJ:L:2017:095:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1505320836050&uri=CELEX:02017R0625-20170407 http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1488722763430&uri=CELEX:02004R0882-20170216

Walker M. J., 2017, Food and Feed Law: legislation review, January - March 2017, Section 5, pp 45 - 48,

https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/617645/Foodfeedlaw\_Jan-Mar\_2017\_v3.pdf

https://www.gov.uk/government/publications/food-and-feed-law-legislation-review-april-to-june-2017

https://www.fda.gov/Food/GuidanceRegulation/FSMA/

http://www.inspection.gc.ca/about-the-cfia/acts-and-regulations/regulatoryinitiatives/sfca/consultation/eng/1426531180176/1426531265317

http://www.efsa.europa.eu/sites/default/files/assets/art36listg.pdf

Directorate General For Internal Policies Policy Department A: Economic And Scientific Policy Food Safety Policy and Regulation In the United States,

http://www.europarl.europa.eu/RegData/etudes/STUD/2015/536324/IPOL\_STU(2015)536324\_EN.pdf

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C \_.2017.205.01.0057.01.ENG&toc=OJ:C:2017:205:TOC

## 5.2 Community Reference Laboratories

See Section 6.2, 'Feed Additives'.

## 5.3 Expert Scientific Committees

Following the March 2016 FSA triennial review of six FSA Scientific Advisory Committees<sup>376</sup> the General Advisory Committee on Science (GACS) was replaced by the FSA Science Council chaired by Professor Sandy Thomas. The Science Council provides high-level, expert strategic insight, challenge and advice to the FSA's Chief Scientific Adviser and to the Board and executive of the FSA on the FSA's use of science to deliver FSA objectives. Its purpose is to help to ensure that the FSA identifies, sources, integrates and uses the best scientific evidence and expertise from all relevant disciplines to inform and evaluate its work. FSA defines science in a broad and inclusive way, including the natural, physical, social and economic, digital and data sciences.<sup>377</sup>

Other expert committees advising government on food and feed matters include:

- The Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT)<sup>378</sup>
- The Advisory Committee on the Microbiological Safety of Food (ACMSF)<sup>379</sup>
- The Advisory Committee on Animal Feedingstuffs (ACAF)<sup>380</sup>
- The Advisory Committee on Novel Foods and Processes (ACNFP), 381 and
- The Social Science Research Committee (SSRC).<sup>382</sup>

The triennial review also recommended that the FSA should consult on moving the functions of the ACNFP and ACAF into a new committee, with a wider remit on innovation in the food chain. This was to be established by December 2017 but has not developed further to our knowledge. The review reinforced the importance of ensuring that the advisory committees continue to operate to the established high standards of independence, openness and transparency, including holding open meetings and publishing papers, minutes and reports, and having access to FSA officials and the Board.

#### 5.4 Food Law Code of Practice

The Food Law statutory Codes of Practice for England and Wales and separately for Scotland and Northern Ireland are available on the FSA website.<sup>383</sup> Food Law Practice Guidance that It is non statutory, complements the Code of Practice, and provides general advice on approach to enforcement of the law where its intention might be unclear.<sup>384</sup> The Scottish Food and Feed Law Guide was published in December 2016.<sup>385</sup>

A revised Food Law Code of Practice for England was issued on 30 March 2017. 386

https://www.food.gov.uk/news-updates/news/2016/15022/triennial-review-of-six-fsa-scientific-advisory-committees

https://science-council.food.gov.uk/

https://cot.food.gov.uk/

https://acmsf.food.gov.uk/

https://www.food.gov.uk/committee/acaf

https://acnfp.food.gov.uk/

https://ssrc.food.gov.uk/

https://www.food.gov.uk/enforcement/codes-of-practice/food-law-code-of-practice-2015

https://www.food.gov.uk/sites/default/files/Food%20Law%20Practice%20Guidance%20October%202015%20-%20FINAL%20.pdf

http://www.foodstandards.gov.scot/scottish-food-and-feed-law-guide

https://www.food.gov.uk/enforcement/codes-of-practice/food-law-code-of-practice

## 5.5 Food law prosecutions database

In November 2015 the FSA announced<sup>387</sup> the publication of a food law prosecutions database. The database<sup>388</sup> gives details of local authority food hygiene and food safety prosecutions outlining where and how food businesses have breached regulations. This data is supplied on a voluntary basis by local authority officers.

#### 5.6 Food law enforcement

## 5.6.1 Primary Authorities

Primary Authority is a scheme that allows businesses to form partnerships with local authorities in order to receive advice and guidance on regulatory matters. The Co-ordination of Regulatory Enforcement Regulations 2017<sup>389</sup> made by the Department for Business, Energy & Industrial Strategy under powers in the Regulatory Enforcement and Sanctions Act 2008 create the framework under which Primary Authority operates. The regulations, coming into force on 1 October 2017, specify the regulators that may provide support to primary authorities<sup>390</sup> and specify the functions in relation to which that support may be provided. The regulations describe what is regarded as enforcement action for the purposes of Primary Authority and the circumstances in which the enforcing authority does not have to notify the primary authority before it takes enforcement action. In such circumstances the enforcing authority must notify the primary authority as soon as it reasonably can after taking the enforcement action. There are procedures for references to the (BEIS) Secretary of State where there is dispute between the parties in relation to whether or not an enforcement action should go ahead.

## 5.7 Food Standards Scotland

The Food (Scotland) Act 2015<sup>391</sup> established Food Standards Scotland (FSS) and describes the structure and function of this new food body in Scotland which came into operation on 1 April 2015. See also Section 5.4, the Scottish Food and Feed Law Guide.

## 5.8 Import controls (contaminants, pesticides etc)

Commission Regulation (EC) No 669/2009 lays down rules concerning increased levels of official controls on imports of feed and food of non-animal origin when warranted by evidence of increasing threats to the food chain. The regulation is therefore periodically updated as new threats emerge or others are brought under control.

Thus Commission Implementing Regulation (EU) 2017/1142 of 27 June 2017 amended Annex I to Regulation (EC) No 669/2009. Several previous entries have been deleted, or the frequency of official controls reduced. There were newly increased levels of official controls for ochratoxin A (in dried grapes from Turkey and Iran), for aflatoxins in peppers (Capsicum spp.) from Sri Lanka, and in groundnuts (peanuts) and derived products from Senegal, and for salmonella in sesamum

The Competition and Markets Authority, The Food Standards Agency, The Gambling Commission, The Health and Safety Executive and the (BEIS) Secretary of State

<sup>387</sup> http://www.food.gov.uk/news-updates/news/2015/14644/food-standards-agency-publishes-food-law-prosecutions-database

http://www.food.gov.uk/enforcement/prosecutions http://www.legislation.gov.uk/uksi/2017/835/contents/made

seeds from Nigeria and Sudan. The frequency of existing official controls on sulphites in dried apricots from Turkey was increased. Regulation (EU) 2017/1142 contains the current full list. 392

Commission Implementing Regulation (EU) 2016/874 of 1 June 2016 amended Implementing Regulation (EU) 2015/943 on emergency measures suspending imports of dried beans from Nigeria owing to residues of the pesticide dichlorvos. Concentrations exceeding the acute reference dose tentatively established by EFSA were found and the prohibition which was to was extended to 30 June 2019. 393 The corresponding entry in Regulation 669/2009 was deleted as unnecessary.

Implementing Regulation (EU) No 884/2014<sup>394</sup> remains in force and imposes special conditions on the import of certain feed and food from certain third countries due to contamination risk by aflatoxins and was last amended by Regulation (EU) 2016/2106 that requires health certificates to accompany imports of spices from Ethiopia, groundnuts from Argentina, hazelnuts from Azerbaijan, dried figs and hazelnuts from Turkey and groundnuts from India. 395

Commission Implementing Regulation (EU) 2015/949 approves the pre-export checks carried out on certain food or feed by certain third countries as regards the presence of certain mycotoxins. Such an approval of pre-export checks performed by the United States of America (US) authorities on aflatoxins in groundnuts was granted by the EU in 2008. The approval attests to the adequacy of pre-export controls so as to replace or reduce the documentary, identity and physical checks laid down in EU law. However, following an increase of non-compliance as regards the presence of aflatoxins in groundnuts from the US, groundnuts (peanuts) from the US were removed from the list of approved pre-export checks by Commission Implementing Regulation (EU) 2017/1269 of 13 July 2017 amending Implementing Regulation 2015/949.<sup>396</sup>

#### 5.9 Local authority enforcement activity

On 21 November 2016 the FSA published official statistics on food law enforcement by local authorities across the UK for the year 2015/16. The figures are said to show an increase in a number of areas of local authority enforcement activity, and levels of hygiene compliance in food business, in spite of reported staffing reductions.<sup>397</sup>

On 18 September 2017 the FSA published official statistics on food law enforcement by local authorities for the year 2016/17. The information provided by local authorities and compiled by the FSA, gives a detailed breakdown of enforcement activity across the UK. These new data show an increase in food hygiene compliance in food establishments, continuing the trend of increases since 2014/15. However there was a decrease in the number of planned interventions for food standards, which covers areas such as authenticity and food fraud. FSA intends to use the data, along with other intelligence, to identify and target underperforming local authorities and work with them to secure improvements.<sup>398</sup>

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.165.01.0029.01.ENG&toc=OJ:L:2017:165:TOC http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2016.145.01.0018.01.ENG&toc=OJ:L:2016:145:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1499096567716&uri=CELEX:02014R0884-20161222

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2016.327.01.0044.01.ENG&toc=OJ:L:2016:327:TOC http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.183.01.0009.01.ENG&toc=OJ:L:2017:183:TOC

https://www.food.gov.uk/news-updates/news/2016/15747/fsa-publishes-local-authority-food-law-enforcement-information https://www.food.gov.uk/news-updates/news/2017/16528/fsa-publishes-local-authority-food-law-enforcement-information

We remain open to including in this review any updates communicated by individual local authorities to the author. However see Section 5.5 for the food law prosecutions database which is based on local authority activity.

#### 5.10 Multi-Annual National Control Plan

The FSA has published its annual report on progress towards implementation of the UK Multi-Annual National Control Plan (MANCP). The FSA considered that the report, which is based on data collected for 2016, shows that overall level of compliance in all sectors in the UK was satisfactory when assessed against expectations.<sup>399</sup>

## 5.11 National sampling priorities for food surveillance

The FSA has been working with UK local authorities since 2003 to support Enforcement Authority risk-based sampling and surveillance of food sold in the UK, whether it is imported or produced in the EU or UK. The FSA invited 10 recommendations for priorities for the 2016-17 National Coordinated Sampling Programme which were published in September 2016. On 29 November 2016 the FSA held a Food Surveillance Summit as part of the development phase for a new food surveillance approach. We are unaware of any further support going forward.

#### 5.12 Online sales and surveillance

Online sales of food and general products is increasing and presents particular problems for regulators and enforcement authorities, mainly around the ephemeral nature of non-compliant operations, provision of information, lack of a physical premises to inspect, and jurisdictional issues. The Food Safety Authority of Ireland, FSAI, have issued what appears to be the first guidance setting out the information that must be provided to consumers by food businesses promoting or selling food online via websites or social media. It specifies what a business must do to comply with the law to ensure that consumers get the same information online, before making a purchase, as they would if they bought the product in a store. The legislation around labelling, advertising, health claims, nutrition claims and allergen declarations apply to foods sold online, as well as over the counter. The European Commission have issued guidance on market surveillance of non-food products sold online that may, by analogy, assist those seeking to police online food sales.

#### 5.13 Regulators' development needs analysis, RDNA

The food section of the RDNA self-assessment tool has been updated to include the competency statements for authorised officers and lead food officers in the Food Law Code of Practice 2015. 406 RDNA appears to be a useful mechanism of clarifying regulatory need and seems to be open to all stakeholders. 407 There are links to the Guidance for Regulators Information Point

http://rdna-tool.bis.gov.uk/

61

https://www.food.gov.uk/news-updates/news/2017/16505/2016-annual-report-on-uk-multi-annual-national-control-plan-published

https://www.food.gov.uk/enforcement/sampling/samplingandsurveillance

https://www.food.gov.uk/news-updates/help-shape-our-policies/priorities-for-the-2016-17-national-coordinated-sampling-programme

https://www.food.gov.uk/sites/default/files/food-sampling-guidance-2016-17.pdf

https://www.food.gov.uk/news-updates/news/2016/15753/food-surveillance-summit-get-involved

https://www.fsai.ie/news\_centre/press\_releases/selling\_online\_guide\_20072017.html

<sup>405</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.C .2017.250.01.0001.01.ENG&toc=OJ:C:2017:250:TOC

https://www.gov.uk/government/news/fresh-food?mc\_cid=127fb196ca&mc\_eid=f1b5809dbc

(GRIP) portal that intended to help authorised officers and lead food officers in England meet their development needs both during and after their competency assessment processes.<sup>408</sup>

#### 5.14 Standards in Public Life

The Committee on Standards in Public Life presented in September 2016 a report on how regulatory bodies in the United Kingdom uphold the Seven Principles of Public Life. The Committee was struck by the complexity and disparity of the regulatory landscape with a shared need to maintain integrity through independence – both from government and those they regulate – avoiding undue influence and ensuring the decisions they make are fair, well-reasoned and evidence-based. In light of the result of the June 2016 referendum in which the British people voted to leave the European Union (EU), the UK's regulatory landscape is likely to be substantially restructured in the coming years. The Committee made recommendations on Governance, Codes of Conduct, staff 'revolving door' issues, independence, transparency and external leadership.

## 5.15 Official Food Chain Requirements and Methods of Analysis

Official methods or performance characteristics thereof are mentioned elsewhere in this report (e.g. 2.2.1 for contaminants and 2.7 for marine biotoxins) and proliferate throughout food law. This subsection is not intended to be comprehensive but will collate overarching food analytical methods as they arise. A source of food chain requirements and several diverse methods is Commission Regulation (EC) No 2074/2005<sup>410</sup> of 5 December 2005 laying down implementing measures for certain products under Regulation (EC) No 853/2004 (hygiene rules for food of animal origin, (EC) No 854/2004 (official controls on products of animal origin intended for human consumption) and Regulation (EC) No 882/2004 (Official Controls). The requirements of Regulation 2074/2005 include methods and limit values for total volatile basic nitrogen (TVB-N) in fish, methods for marine biotoxins, and for raw milk and heat-treated milk, the applicable official controls for the inspection of meat, provisions on water retention agents in poultry and the calcium content of mechanically separated meat.

## 5.16 Corporate Reports

The Annual Report and Westminster Accounts 2016/17<sup>411</sup> and the Annual Report and Consolidated Accounts 2016/17<sup>412</sup> of the FSA were published in July 2017.

The Government Chemist (UK) published the 2016 Annual Review in September, a summary of referee casework and research carried out by the Government Chemist programme. 413

http://www.regulatorsdevelopment.info/grip/food

CM 9327, Striking the balance, upholding the seven principles of public life in regulation: https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/554817/Striking\_the\_Balance\_web\_-v3\_220916.pdf

<sup>410</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1494594527755&uri=CELEX:02005R2074-20160603

https://www.food.gov.uk/sites/default/files/fsa-wstminster-accounts-2016-17.pdf

https://www.food.gov.uk/sites/default/files/fsa-consolidated-accounts-2016-17.pdf https://www.gov.uk/government/publications/government-chemist-annual-review-2016

# 6 Feeding stuffs and fertilisers

## 6.1 Feeding stuffs

The Animal Feed (Hygiene, Sampling etc. and Enforcement) (England) Regulations 2015 came into force on 6 April 2015. The Feed (Hygiene and Enforcement) (England) Regulations 2005, the Feed (Specified Undesirable Substances) (England) Regulations 2006, the Feed (Hygiene and Enforcement) and the Animal Feed (England) (Amendment) Regulations 2013 were revoked. Also revoked were Regulation 51 and Schedule 7 of the Official Feed and Food Controls (England) Regulations 2009 and Regulations 4, 5, 6, 7, 21, 22, and 23 and Schedule 1 of the Feed (Sampling and Analysis and Specified Undesirable Substances) (England) Regulations 2010.

Thus the 2015 regulations make provisions for the appointment and qualifications of Agricultural Analysts, sampling for analysis, secondary analysis by the Government Chemist, and the form and evidential status of an Agricultural Analyst's certificate of analysis. Also dealt with are methods of analysis where the sampling has not been carried out in the course of official controls and making it an offence to tamper or otherwise interfere with a sample.

The 2015 regulations provide for the continuing execution and enforcement of Regulation (EC) No 183/2005 laying down requirements for feed hygiene and Commission Regulation (EC) No. 152/2009 laying down the methods of sampling and analysis for the official control of feed, and also make provision as to administration generally in relation to feed law, in particular so as to give effect to Regulation (EC) No 882/2004 on official controls. Part 2 of the 2015 Regulations deals with the execution and enforcement of Regulation 183/2005, which provides that almost all businesses producing, trading in or using animal feed should be either registered, or approved, by the competent authorities.

The Animal Feed (Composition, Marketing and Use) (England) Regulations 2015<sup>414</sup> (SI 255) amended the Official Feed and Food Controls (England) Regulations 2009 (SI 3255) and revoked the Genetically Modified Animal Feed (England) Regulations 2004 (SI 2334), the Feed (Corn Gluten Feed and Brewers Grains) (Emergency Control) (England) (Revocation) Regulations 2007 (SI 3007) and the Animal Feed (England) Regulations 2010 (SI 2503), other than regulations 1, 2 and 14. These Regulations give effect to:

- Commission Directive 82/475/EEC laying down the categories of feed materials which may be used for the purposes of labelling compound feeding stuffs for pet animals;
- Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed;
- Regulation (EC) No 1829/2003 of the European Parliament and of the Council on genetically modified food and feed;
- Regulation (EC) No. 1831/2003 of the European Parliament and of the Council on additives for use in animal nutrition;
- Commission Directive 2008/38/EC establishing a list of intended uses of animal feeding stuffs for particular nutritional purposes; and
- Regulation (EC) No. 767/2009 of the European Parliament and of the Council on the placing on the market and use of feed, amending European Parliament and Council Regulation (EC) No 1831/2003 and repealing certain other measures.

http://www.legislation.gov.uk/uksi/2015/255/pdfs/uksi\_20150255\_en.pdf

Similar regulations were made in Northern Ireland to make provision as to administration generally in relation to feed law, in particular so as to give effect to Regulation (EC) No. 882/2004. These were the Animal Feed (Composition, Marketing and Use) (Northern Ireland) Regulations 2016<sup>415</sup> (SR 4) amending:

- The Official Feed and Food Controls (Northern Ireland) Regulations 2009 (SR 427) and The Animal Feed (Hygiene, Sampling etc. and Enforcement) Regulations (Northern Ireland) 2016<sup>416</sup> (SR 5) which supersede:
  - The Feed (Hygiene and Enforcement) Regulations (Northern Ireland) 2005 (SR.546);
  - The Feed (Specified Undesirable Substances) Regulations (Northern Ireland)
     2006 (SR 471);
  - Regulation 46 and Schedule 7 of the Official Feed and Food Controls Regulations (Northern Ireland) 2009 (SR 427);
  - Regulations 4, 5, 6, 20, 21, and 22 and Schedule 1 of the Feed (Sampling and Analysis and Specified Undesirable Substances) Regulations (Northern Ireland) 2010 (SR 323);
  - The Feed (Hygiene and Enforcement) and the Animal Feed (Amendment) Regulations (Northern Ireland) 2013 (SR 294).

## 6.1.1 Mycotoxin recommended limits

Commission Recommendation (EU) 2016/1319<sup>417</sup> of 29 July 2016 amended Recommendation 2006/576/EC as regards deoxynivalenol, zearalenone and ochratoxin A in pet food. Commission Recommendation 2006/576/EC establishes guidance values for deoxynivalenol, zearalenone, ochratoxin A, fumonisins B1+B2 and T-2 and HT-2 toxin in feed materials and compound feed. The current guideline level for deoxynivalenol in feed for dogs of 5 mg kg<sup>-1</sup> (from recent evidence including from EFSA) appears too high and is reduced to 2 mg kg<sup>-1</sup>. Guideline levels for zearalenone and ochratoxin A in feed for cats and dogs are established at 0.2 mg kg<sup>-1</sup> and 0.01 mg kg<sup>-1</sup> respectively.

#### 6.1.2 Dioxin testing

Regulation (EC) No 183/2005 of the European Parliament and of the Council lays down general rules on feed hygiene and processing conditions, the latest consolidated version<sup>418</sup> is that of 23 April 2016 and includes updates in previous editions of this legislation review.

Commission Regulation (EU) 2017/771 of 3 May 2017<sup>419</sup> amended Regulation (EC) No 152/2009 (see section 6.1) as regards the methods for the determination of the levels of dioxins and polychlorinated biphenyls. Regulation 152/2009 includes methods for the determination of polychlorinated dibenzo-p-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs), dioxin-like polychlorinated biphenyls (PCBs) and non-dioxin-like PCBs in feed. On evidence from the EU reference laboratory for dioxins and PCBs in feed and food that analytical results for dioxins and PCBs in certain cases are not reliable when the performance criteria provided for in Part B of Annex V to Regulation (EC) No 152/2009 are not applied by laboratories performing the analysis of samples taken by feed business operators in accordance with Regulation (EC) No 183/2005, the application of the performance criteria for the analysis of such samples was made obligatory.

http://www.legislation.gov.uk/nisr/2016/5/pdfs/nisr\_20160005\_en.pdf http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474057348374&uri=CELEX:32016H1319

http://www.legislation.gov.uk/nisr/2016/4/pdfs/nisr\_20160004\_en.pdf

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1498138333211&uri=CELEX:02005R0183-20160423

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L .2017.115.01.0022.01.ENG&toc=OJ:L:2017:115:TOC

Regulation 2017/771 deletes the decision limit in Commission Decision 2002/657/EC for the analysis of dioxins, furans and PCBs in feed in favour of the expanded uncertainty using a coverage factor of 2, giving a level of confidence of approximately 95 % and references guidance documents for the measurement uncertainty and for the estimation of the Limit of Detection (LOD) and Limit of Quantification (LOQ). Reporting requirements for physico-chemical methods used for screening are aligned with similar reporting requirements for bioanalytical screening methods and performance criteria are simplified and aligned generally. Along with some amended technical specifications, such as recoveries of isotope-labelled standards and other minor modifications, the whole Part B of Annex V to Regulation (EC) No 152/2009 is replaced.

## 6.1.3 Nickel in feed

EFSA requires further data on Ni in food of animal origin and accordingly Commission Recommendation (EU) 2016/1110 of 28 June 2016 askes Member States to monitor for the presence of nickel in feed.<sup>421</sup>

## 6.1.4 Starch content - analytical methods differ

Commission Implementing Regulation (EU) 2017/68 of 9 January 2017 amended Regulation (EC) No 121/2008 laying down the method of analysis for the determination of starch content in preparations of a kind used in animal feeding (CN code 2309). The classification of preparations of a kind used in animal feeding under the subheadings of heading 2309 of the Combined Nomenclature annexed to Council Regulation (EEC) No 2658/87 is determined on the basis of the product's starch content. For the purposes of that classification, Commission Regulation (EC) No 121/2008 (3) provides for use of an enzymatic analytical method for the determination of starch content in certain preparations. Where soya products are present in those preparations, their content of starch can be ascertained using the polarimetric method or the enzymatic analytical method. It has been found that substantially different results are obtained depending on the method used, and the polarimetric method has been found not to be suitable for determining the starch content of the preparations with soya products as it gives inaccurate results. Soya products are therefore added to the list of feed materials set out in Article 1 of Regulation (EC) No 121/2008 in respect of which the starch content of the preparation is to be determined using the enzymatic analytical method in order to clarify which method the customs authorities are to use and thus ensure a uniform classification in the Member States. 422

## 6.2 Feed additives

Regulation (EC) No 1831/2003 provides for the authorisation of additives for use in animal nutrition and for the grounds and procedures for granting such authorisation. A register of feed additives is available. 423 Guidance is available intended to help applicants in their preparation of technical dossiers for applications for authorisation. 424

The Animal Feed (Scotland) Amendment Regulations 2017 No. 38,<sup>425</sup> in force 23 March 2017, provide for the execution and enforcement of Commission Regulation (EU) 2015/327 amending Regulation (EC) No 1831/2003 of the European Parliament and of the Council as regards

http://www.legislation.gov.uk/ssi/2017/38/contents/made

<sup>420</sup> http://ec.europa.eu/food/safety/animal-feed\_en

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1471533458929&uri=CELEX:32016H1110

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L \_.2017.009.01.0004.01.ENG&toc=OJ:L:2017:009:TOC

http://ec.europa.eu/food/safety/animal-feed/feed-additives/eu-register/index\_en.htm

http://www.efsa.europa.eu/en/efsajournal/pub/4473

requirements for the placing on the market and conditions of use of additives consisting of preparations. These Regulations amend the Animal Feed (Scotland) Regulations 2010.

Commission Implementing Regulation (EU) 2017/1145 of 8 June 2017, pursuant to Article 10(5) of Regulation (EC) No 1831/2003, lists the repeal of obsolete provisions authorising feed additives which were entered in the Community Register of Feed Additives as existing products and for which no applications in accordance with Article 10(2) and (7) of Regulation (EC) No 1831/2003 were submitted before the deadline provided for in those provisions, or for which an application was submitted but subsequently withdrawn. The Annex to Regulation (EU) 2017/1145 lists over 200 such additives.

## 6.2.1 Community and National Reference Laboratories

Regulation (EC) No 1831/2003 deals with application for, and authorisation of, feed additives in animal nutrition with detailed rules in Regulation (EC) No 1831/2003 including the duties and tasks of the Community Reference Laboratory (CRL). In October 2015 Commission Implementing Regulation 2015/1761<sup>427</sup> amended Regulation 378/2005 as regards the Community Reference Laboratory reports, fees and the feed additive national reference laboratories, including LGC, listed in Annex II thereto.

#### 6.3 Fertilisers

Legislation on fertilisers is highly technical and treated here but briefly. The overarching European measure is Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003. This regulation is updated from time to time, including with references to validated analytical methods, see for example (non-exhaustively) Commission Regulation (EU) 2016/1618. 429

# 7 Acknowledgements

Editorial assistance from Elena Sanchez and Vicki Barwick is gratefully acknowledged. Funding from the Department for Business, Energy & Industrial Strategy under the Government Chemist Programme for work carried out in this project is gratefully acknowledged.

http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474057348374&uri=CELEX:32016R1618

<sup>426</sup> http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L \_.2017.166.01.0001.01.ENG&toc=OJ:L:2017:166:TOC

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\_.2015.257.01.0030.01.ENG

Latest consolidated version (Sept 2016) is at <a href="http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474134170231&uri=CELEX:02003R2003-20160101">http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474134170231&uri=CELEX:02003R2003-20160101</a> however please consult EUR-Lex for the most up to date version <a href="http://eur-lex.europa.eu/homepage.html">http://eur-lex.europa.eu/homepage.html</a>