



# Feed Legislation & Insect Farming

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Insect Farming in Scotland, 7 February 2019

## Insects as Food:

Insects as **Food**: Authorised for use by the Novel Foods Regulations also have to comply with General Food Law, Food Hygiene, Microbiological Criteria, Food Labelling etc.

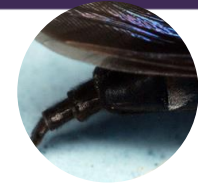


**New proposal** to amend Reg 853/2004 on specific hygiene requirements for insects intended for human consumption

**Conditions:** NF approval; Substrate for the feeding the insects must only contain products of non-animal origin or products of animal origin of Category 3 material

Commission Consultation OPEN: ends 20 February 2019 at: [https://ec.europa.eu/info/law/better-regulation/initiatives/ares-2018-3849989\\_en](https://ec.europa.eu/info/law/better-regulation/initiatives/ares-2018-3849989_en)

# Feed Regulatory Framework



- **EC Regulation 178/2002 General Food & Feed Law**
- **EU Regulation 183/2005 Feed Hygiene**
- **EU Regulation 767/2009 Marketing and Use of Feed**
- **EU Regulation 68/2013 Feed Materials Catalogue**
- **EU Directive 2002/32 on Undesirable Substances in Feed**

## **Other Feed Regulations;**

- **Covering feed additives: application, authorisation, assessment**
- **Genetically Modified Feed**

# Regulation 183/2005 on feed hygiene

**Art 3** Defines 'Feed Business Operator' (FeBO) & 'primary production of feed'

**Art 4 General obligations** e.g. FeBO shall ensure that all stages of production, processing & distribution under their control are carried out in accordance with Community legislation,...

**Art 5 specific obligations** e.g FeBO & farmers shall only source & use feed from establishments which are registered &/or approved

**Art 6&7 HACCP** Other than operations at the level of primary production and the following associated operations (a) transport, storage and handling of primary products at the place of production; mixing of feed for the exclusive requirements of their own holdings without using additives or premixtures of additives with the exception of silage additives;

**Art 9 & 10** Official controls, notification & registration, approvals

**Annex I Feed Hygiene Rules for Primary Production** e.g. measures control hazards, hygienic production, transport & storage and record keeping

# Regulation 767/2009 on Marketing and Use of Feed

## **Art 4 General Requirements for Safety & Marketing**

Feed may only be placed on the market if: safe & does not have an adverse effect on the environment or animal welfare

## **Art 6 Restrictions and Prohibitions**

Feed shall not contain or consist of materials whose placing on the market or use for animal nutritional purposes is restricted or prohibited

## **Art 11 Principles for labelling and presentation (mandatory details in other articles)**

**Annex III Prohibited Materials** in feed; faeces & separated digestive tract content and all waste

## **Art 24 EU Catalogue of Feed Materials**

# Catalogue of Feed Materials



## EU Regulation 68/2013

Updated Catalogue of Feed Materials Reg 2017/1017 includes invertebrates, in Part C (list of feed materials)...

### 9.4.1 Processed animal protein

*9. Land animal products and products derived thereof*

Feed materials in this chapter shall fulfil the requirements of the Regulation (EC) No 1069/2009 and Regulation (EU) No 142/2011 and may be subject to restrictions in use according to Regulation (EC) No 999/2001

Number	Name	Description	Compulsory declarations
9.1.1	Animal by-products <sup>(33)</sup>	Whole or parts of warm-blooded land animals, fresh, frozen, cooked, acid treated or dried.	Crude protein Crude fat Moisture if > 8 %
9.2.1	Animal fat <sup>(34)</sup>	Product composed of fat from land animals, including invertebrates other than species pathogenic to humans and animals in all their life stages. If extracted with solvents, may contain up to 0,1 % hexane.	Crude fat Moisture if > 1 %
9.3.1	Apiculture by-products	Honey, beeswax, royal jelly, propolis, pollen, processed or unprocessed	Total sugars, calculated as sucrose
9.4.1	Processed animal protein <sup>(34)</sup>	Product obtained by heating, drying and grinding whole or parts of land animals, including invertebrates other than species pathogenic to humans and animals in all their life stages from which the fat may have been partially extracted or physically removed. If extracted with solvents, may contain up to 0,1 % hexane.	Crude protein Crude fat Crude ash Moisture if > 8 %

# EU Catalogue Feed Materials



9.16.1 Terrestrial invertebrates, live

9.16.2 Terrestrial invertebrates, dead

10.1.1 Aquatic invertebrates

9.16.1	Terrestrial invertebrates, live <sup>(33)</sup>	Live terrestrial invertebrates, in all their life stages, other than species having adverse effects on plant, animals and human health.	
9.16.2	Terrestrial invertebrates, dead <sup>(33)</sup>	Dead terrestrial invertebrates, other than species having adverse effects on plant, animals and human health, in all their life stages, with or without treatment but not processed as referred to in Regulation (EC) No 1069/2009.	Crude protein Crude fat Crude ash

**10. Fish, other aquatic animals and products derived thereof**

Feed materials in this chapter shall fulfil the requirements of the Regulation (EC) No 1069/2009 and Regulation (EU) No 142/2011 and may be subject to restrictions in use according to Regulation (EC) No 999/2001

Number	Name	Description	Compulsory declarations
10.1.1	Aquatic invertebrates <sup>(35)</sup>	Whole or parts of marine or freshwater invertebrates, in all their life stages, other than species pathogenic to humans and animals; with or without treatment such as fresh, frozen, dried.	Crude protein Crude fat Crude ash

# Future possible amendments...







## Further sources

2015 EFSA's Opinion Risk profile on production & consumption of insects as food and feed

<https://efsa.onlinelibrary.wiley.com/doi/epdf/10.2903/j.efsa.2015.4257>

Commission Regulation 2017/893 authorising the use of insect processed animal protein (insect PAPs) in feed for aquaculture animals

<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32017R0893&from=EN>

FAO ORG Regulatory framework governing the use of insects for food security

<http://www.fao.org/docrep/018/i3253e/i3253e14.pdf>

APHA Guidance on Supplying and using Animal By Products as farm animal feed

<https://www.gov.uk/guidance/supplying-and-using-animal-by-products-as-farm-animal-feed#when-abps-are-farm-animal-feed>

APHA Guidance for Animal By Product industry

<https://www.gov.uk/government/collections/guidance-for-the-animal-by-product-industry>