



FEMAS Sector Note No. 5 - Fish Meal and Fish Oil

These Sector Notes apply to businesses producing or placing on the market Fish Meal, Fish Oil and other similar products for use in animal feed, including those listed in chapter 10 of the UK or EU Catalogues of Feed Materials.

These Notes are not exhaustive and are intended to assist in the application of the corresponding requirements of the FEMAS Standard and are not to be considered in isolation.

Section 1 of these Sector Notes includes definitions of specific relevance to this sector.

Section 2 of these Sector Notes includes additional sector-specific information to assist Participants in complying with **Requirements, Interpretation, Guidance and Further Information** of the FEMAS Scheme. The FEMAS Scheme Rules provide the following definitions:

Requirement – Sets mandatory standards with which Applicants and Participants must comply to achieve and maintain certification.

Interpretation – Provides specific means for Applicants and Participants to achieve the desired outcome of the preceding Requirement. Applicants and Participants are expected to consider Interpretation and apply as relevant to their business. Failure to follow interpretation, resulting in the desired outcome of the Requirement not being achieved will lead to a non-conformance being raised against the requirement.

Guidance – Non-mandatory suggestions of useful tools and techniques for achieving and maintaining compliance or continuous improvement.

Further information – External sources of useful information, typically including references/ web links to documents or other sources of information.

NOTE: Revisions introduced in this edition of the Sector Notes are highlighted in Blue.

1 Definitions

Fish Meal	Obtained by processing whole or parts of fish from which part of the oil may have been removed and to which fish solubles may have been re-added, including products of a similar nature obtained by processing non-mammalian aquatic animals such as aquatic molluscs and crustaceans.	
Crude Fish Oil/ Fish Oil	Unrefined/ refined oil obtained from fish or parts of fish and including products of a similar nature obtained from non-mammalian aquatic animals such as aquatic molluscs and crustaceans.	
Aquaculture	The farming of fish and other non-mammalian aquatic species for human consumption.	

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Commingling	The combining of different lots of the same type of Feed Material,	
	produced under similar conditions, by identified sources and meeting	
	the same specification.	
Standardising	The process by which different parcels of Fish Meal may be mixed to	
	achieve target levels of protein or other nutrients.	
Trimmings	By-products of the processing of fish and other aquatic animals for	
	human consumption.	

2 Additional Sector Notes

Scheme and Legislative Requirements		
A 1.4.1	Requirement	Where a Participant undertakes detoxification
		processes as defined in EU Regulation 2015/786 as
		amended, they must have evidence of appropriate
		approval from the relevant competent authority.

B 1.7	Interpretation	Sector-specific potential hazards include but are not limited to:
		 Contamination of seawater used in processing (e.g. from waste discharge, pollution, plastic, wood and other waste items). The presence of fish hooks in fish being processed (whether or not line caught). The presence of stones collected by fish. The presence of residual packaging, knives and personal items in bulk Fish Meal tipped from bags. The presence of non-protein nitrogen products. Bioaccumulated contaminants that may be present in fish and concentrated in Fish Meal of Fish Oil (e.g. Mercury, Dioxins and PCBs) including the variation in contaminants due to factors such as geography, species, life stage of fish, migration and feeding patterns.

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Raw Ma	terials and Raw Material S	Suppliers
C 1.2	Requirement	The Participant's approval system for suppliers must include effective on-site audits of all sites producing trimmings prior to first supply unless these sites are already certified in their own right to a scheme recognised by AIC and with a scope including the raw materials. On-site audits must subsequently be carried out at a frequency dictated by risk assessment, to ensure feed safety is not compromised.
C 1.2	Interpretation	Where the Participant receives trimmings from plants processing for human consumption, (whether directly or via a 3 rd party) the Certification Body reserves the right to include a sample of processor and/ or collector sites in the audit programme to validate any controls upon which the Participant may rely to ensure feed safety.
C 1.3	Requirement	 Trimmings must be sourced from suppliers only processing animal by-products from aquatic animals (excluding aquatic mammals) for human consumption. Farmed fish and farmed marine invertebrates may only be used to produce feed materials if they meet the following criteria: They must show no clinical signs of disease on the day of loading. They must not have been slaughtered under a scheme for the eradication of a disease. They must not come from a farm which is subject to a prohibition for animal health reasons and must not have been in contact with animals from such a farm. All raw materials sourced from farmed fish must be clearly identified and segregated to prevent their inclusion in Fish Meal destined for feeding to the same species.

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C 1.4	Requirement	 For all suppliers of trimmings, Participants must have in place contracts which specify, as a minimum, the following feed safety criteria: A statement indicating the intended use as animal feed. A specification listing the types of trimmings included in the contract and, as appropriate, those that must be excluded. The requirement for all businesses in the supply chain (including hauliers) to be appropriately approved for handling fish and other aquatic animal products under applicable national and local regulations.
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Produc	Product Design and Formulations		
F 2	Interpretation	Standardising of Fish Meal may be undertaken to meet customer specifications for nutrients (e.g. protein or salt).	
		The blending of feed in order to reduce levels of undesirable substances to an acceptable level is illegal under UK and EU Law.	

Labelling	and Identification	
F 3.2	Requirement	During transport and storage, labels must be attached to the packaging, container or vehicle in compliance with relevant national and local legislation. Full details on labelling requirements for all feed materials placed on the market in the UK and EU can be found on the AIC Website (https://www.agindustries.org.uk/sectors/animal-feed/resources/feed-legislation-and-guidance.html). Regulation (EU) No. 142/2011 (as amended) contains additional requirements for labelling fishmeal and fish oil: - Clearly indicate the category (as defined by EU Regulation 1069/2009 as amended) of the animal
		Regulation 1069/2009 as amended) of the animal by-products or of the derived products - Bear the following words visibly and legibly displayed on the packaging, container or vehicle, as applicable:

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- in the case of Category 3 material, 'not for human consumption'
- in the case of fish and derived products from fish intended for feed for fish, the name and
address of the feed manufacturing establishment
of origin, marked clearly and legibly, and
 In the case of fishmeal from wild fish, bearing the words 'contains fishmeal from wild fish only – may be used for the feeding of farmed fish of all species'; In the case of fishmeal from farmed fish, bearing the words 'contains fishmeal from farmed fish of the [] species only – may only be used for the feeding of farmed fish of other fish species'; In the case of fishmeal from a combination of wild fish and from farmed fish, bearing the words 'contains fishmeal from wild fish and farmed fish of the [] species – may only be used for the feeding of farmed fish of other fish species';
Regulation (EU) 999/2001 (as amended) requires that for fishmeal placed on the market in the UK or EU:
The words 'fishmeal – shall not be used in feed for ruminants except unweaned ruminants' shall be clearly indicated on the accompanying commercial document or health certificate as well as the label of fishmeal.

Premise	Premises		
G 1.1	Requirement	Areas where raw fish and partially processed fish are located (unclean areas) and areas where Fish Meal and Fish Oil are packed or stored (clean areas) must be designated, and appropriate controls implemented to prevent contamination.	
G 1.7	Requirement	Personnel moving between the unclean areas and clean areas of the process must not do so without changing or disinfecting their footwear.	
G 1.12	Requirement	Procedures must be in place to control the movements of equipment between the unclean areas and clean areas and prescribe the cleaning and disinfecting of equipment where necessary.	

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Water		
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G 5.2	Interpretation	Seawater may be used in handling systems prior to processing or drying, as long as any potential hazards that may arise from this practice are considered and controlled and any analytical data provided to buyers considers the effect of seawater (notably in the levels of salt in finished products), which may result from this practice.
Handling	g and Processing Equipme	nt
G 7.3	Requirement	Where terrestrial animal or marine mammal products are stored, produced or available on a site they must not contaminate Fish Meals or Fish Oils.
Package	d Storage Operations	
H 7.1	Interpretation	In countries where the climate is suitable, Fish Meal may be stored outside in bags (including big bags) as long as they are protected from ingress by pests and stored under secure conditions, with access restricted only to authorised persons.
Stock M	anagement	
H 8.2	Interpretation	Due to the nature of the raw materials, particular attention should be given to the avoidance of fermentation and the formation of biogenic amines, caused by the degradation of proteins due to spoilage.
Drier/ H	eat Treatment	
H 12.4	Requirement	Regulation (EU) No. 142/2011 (as amended) requires

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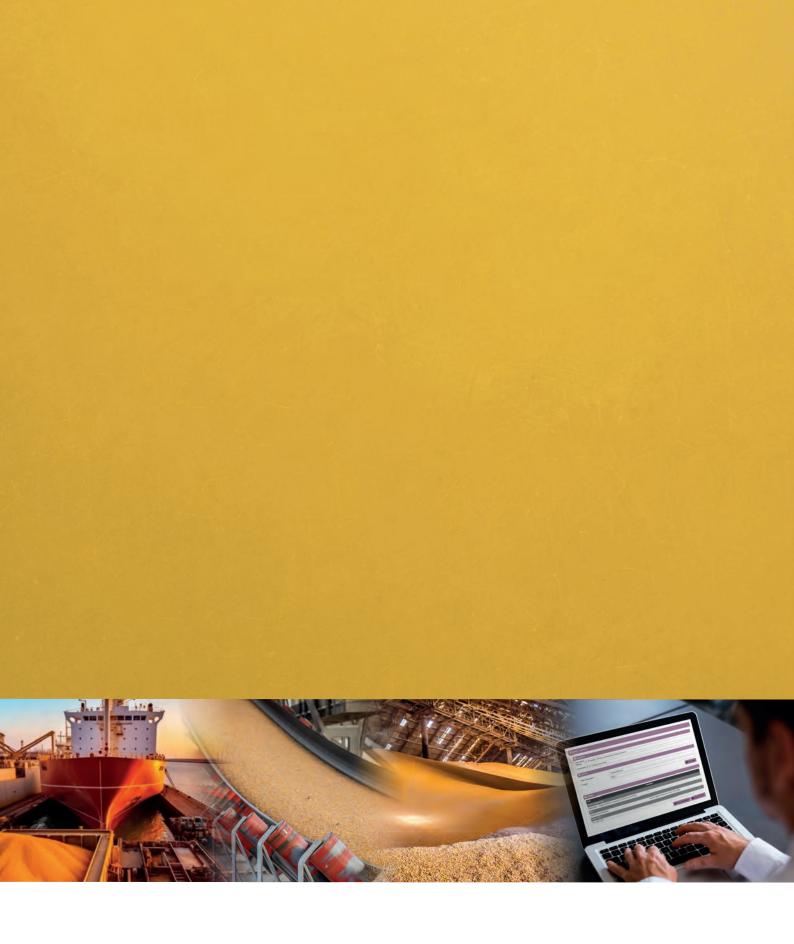
Analysis		
15.1	Requirement	Regulation (EU) No. 183/2005 (as amended) requires that for fish oil placed on the market in the UK or EU:
		"Dioxin Monitoring for oils, fats and derived products
		100% of the batches of fish oil shall be analysed if it is produced from:
		 Products derived from crude fish oil other than refined fish oil. Fisheries with no monitoring history, of unspecified origin or from the Baltic Sea. Fish by-products from establishments processing fish for human consumption that are not EU approved. Blue whiting or menhaden.
		100% of the outgoing batches of products derived from crude fish oil, other than refined fish oil, shall be analysed.
		A batch may comprise at the maximum 1,000 tonnes of these products.
		One representative analysis per 2,000 tonnes shall be carried out in the case of fish oil.
		If it can be demonstrated that a homogenous consignment is bigger than the maximum batch size and that it has been sampled in a representative way, then the results of the analysis of the appropriately drawn and sealed sample will be considered acceptable.
		Fish oil decontaminated by an officially approved treatment shall be analysed according to HACCP principles."

General Traceability		
K 1.1	Requirement	Regulation (EU) No. 142/2011 requires that for fishmeal and fish oil placed on the market in the UK or EU:

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"Processing plants producing fishmeal or other feed originating from aquatic animals shall keep records of the following: The quantities produced each day. The species of origin, including an indication of whether the aquatic animals were caught in the wild or produced in aquaculture. In the case of fishmeal from farmed fish which is intended for feeding to farmed fish of another species, the scientific name of the species of origin." K 1.1 **Interpretation** Raw materials sourced from wild caught fish, whether whole fish or trimmings, should be traceable to named vessels, the time of catching and the catching area. Records of the weight and species of fish caught should also be available. Where, for logistical reasons, the products of more than one Fish Meal or Fish Oil production site are commingled into a common bulk, loss of segregation will result in the loss of FEMAS approved status, unless **ALL** the criteria below are met: All parcels commingled meet the parameters of the same specification. • All products commingled are from FEMAS certificated factories. • Buyers are made fully aware and accept that the products of more than one factory are included in the same bulk. This should be confirmed in writing. Full traceability back to the raw materials is available for each component parcel of Fish Meal or Fish Oil forming part of the common bulk.

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